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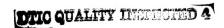
U.S. Army Medical Research and Materiel Command

Fort Detrick, Maryland 21702-5012

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FOREWORD

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Microbiological and Biomedical Laboratories.
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Annual report, José Costa, M.D.

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Introduction

In Year 4 of The Program for Critical Technologies in Breast Oncology (PCTBO), we have expanded services that were initiated in July 1994 to establish a core technical and tissue procurement resource that: i) maximizes access to human breast tissues and tumor DNA for basic investigators; ii) facilitates the application of molecular technologies in clinical breast oncology; and iii) makes such technologies routinely available to clinical investigators. This program builds on Yale's existing Program for Critical Technologies in Molecular Medicine and the Tissue Procurement Shared Resource of the Yale Cancer Center, and complements in a rigorous and planned way the Yale Tumor Registry and Yale's Rapid Case Ascertainment System. Thus it makes possible for several resources to have a special focus on breast cancer and related diseases. The existence of a Breast Cancer Research Program (Dr. Michael Reiss, P.I.), developed with the resources of the Yale Comprehensive Cancer Center in 1995, increases the utilization of the PCTBO infrastructure to near maximum capacity.

Body of Report

We have organized the body of our annual report to follow the tasks delineated in the original proposal's Statement of Work: i) collection of samples; ii) establishment of a database; iii) preparation and distribution of samples; iv) development of asssays relevant to breast cancer.

Task 1) Centralize collection of fresh, fixed, and paraffin embedded breast tissue samples from patients treated at Yale New-Haven Hospital and other hospitals in Connecticut.

Year 4 1-a) Continue collection activities

During the fourth year of the program, we received reapproval from all of the hospitals in which we already had initial IRB approval, including reapproval from Yale's Human Investigation Committee for our parent protocol. We have strong and ongoing interactions with all of our Phase I hospitals. Phase II hospitals have, within our experience, proven to be a more challenging situation that we originally anticipated, partly because of the growing influence of managed care and other factors. Three of the Phase II hospitals on our original list are no longer exist due to mergers or bankruptcy. We have two Phase II hospitals on our tissue collection schedule. However, smaller numbers of patients, increased numbers of cases for which no excess tissue is available, and limited off-site hospital staff time for "non-essential" operations have combined to yield extremely small numbers of samples from our Phase II hospitals. Because of these facts, we made a final evaluation of the efficiency and cost-effectiveness for inclusion of the remaining, smaller, and much more geographically distant Phase II hospitals, and came to the conclusion that, at best, we would receive four or five samples per year from all remaining unenrolled hospitals. Because of such low anticipated yield in return for large amounts of time and energy in setting up and coordinating IRB approvals, training of hospital personnel, and scheduling of tissue collections on dry ice, we did not enroll the remaining hospitals.

The hospitals at which we have tissue procols for collection are listed in Tables 1a and 1b.

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Table 1a: List of Off-site Hospitals, Phase I

Hospital & City	Contact Pathologist/ Department Chair or HIC/ Collection Technologist (italics = updated information)	Date of initial IRB approval & last reapproval
Bridgeport Hospital, Bridgeport, CT	Gustave Davis, M.D. Gustave Davis, M.D.(IRB) Bonnie Yannessy	2/98
Danbury Hospital, Danbury, CT	Raoul Braza, M.D. Ramon Kranwinkel, M.D.(IRB) Mary Davis, Ph.D.	8/97
Greenwich Hospital, Greenwich, CT	Richard Eisen, M.D. Stephen Gray, M.D. Claire Arkemone, H.T.	6/98
The Griffin Hospital, Derby, CT	Stephanie Wain, M.D. Vincent deLuca, Jr. M.D. (IRB)	9/97
Hartford Hospital Hartford, CT	Martin Berman, M.D. Robert Siegal, M.D.	submitted 5/96, still under consideration
Hospital of St. Raphael, New Haven, CT	Paul Fiedler, M.D. Romeo Vidone, M.D. Gail Barricelli, M.T.	2/98
Norwalk Hospital, Norwalk, CT	Michael Bush, M.D. Eric Lazur, M.D. (IRB) Margaret Keane, H.T.	9/97
The Stamford Hospital, Stamford, CT	Patrick Broderick, M.D. Michael Parry, M.D. (IRB)	8/97
St. Mary's Hospital, Waterbury, CT	William Frederick, M.D. Dwight Miller, M.D.	8/97
The Waterbury Hospital, Waterbury, CT	Thomas Anderson, M.D.	8/97
Yale-New Haven Hospital, New Haven, CT	Darryl Carter, M.D. Jon Morrow, M.D., Ph.D. Leticia deDios, M.D.	2/98
Veterans Hospital, West Haven, CT	Robert Homer, M.D. Gary Stack, M.D. Leo Kelley, P.A.	2/98

Table 1b: List of Off-site Hospitals, Phase II

Hospital & City	Contact Pathologist/	Date of initial IRB
2105F1311 of Carly	Department Chair or HIC/	approval
	Collection Technologist	& last reapproval
	(italics = updated information)	
The William H. Backus	Sa-id Esfahanian, M.D.	**
	Franklin Friedman, M.D. (IRB)	
Hospital	Trankim Triedman, M.D. (III)	
D. H. M	James Ford M.D.	**
Bradley Memorial Hospital	James Ford W.D.	10°
Southington CT		
Bristol Hospital	Leslie Kish M.D.	**
Bristol CT	Richard Dalsen, M.D. (Cancer	1
	Committee)	
Charlotte Hungerford Hospital	Richard Gallagher M.D.	**
Torrington CT	Susan Pittman-Lowenthall (IRB)	
Torrington C1	,	
Day Kimball Hospital	Paul Wong M.D.	**
Putnam CT	Taur Wong M.D.	
Putham C1		
I I D I I I I I I I I I I I I I I I I I	Faripour Forouhar, M.D.	**
John Dempsey Hospital	Fampour Forounai, M.D.	
Framington CT		
		0.107
Lawrence & Memorial Hospital	Edwin Clayton M.D.	9/97
	Joan Blessing	
Manchester Hospital	Dennis O'Neill, M.D.	submitted 5/96, still
Manchester, CT	Dennis O'Neill, M.D. (IRB)	under consideration
Middlesex Hospital	Sebastian Gallo, M.D.	**
Middletown CT		
Milford Hospital	Suri Pappu, M.D.	**
Milford CT	John Walsh, (VP Admin)	
Willion C1	, , , , , , , , , , , , , , , , , , , ,	
Mount Sinai Hospital	merged with St. Francis Hospital	NA
Hartford CT	mergen with Dr. 1 rancis 110spilli	1-77
Haitioid C1		
New Dritain Consest Userital	David Krugman, M.D	**
New Britain General Hospital	David Kiugiliali, W.D	T 7
New Britain CT		
N. M. C. LYY.	Deschart Dadrigers M.D.	1 **
New Milford Hospital	Prashant Rodrigues, M.D.	1 200
New Milford CT		
Park City Hospital	merged with Bridgeport Hospital	NA
Bridgeport CT		
Rockville General Hospital	John Kriz, M.D.	**
Rockville CT		
		I amount of the second of the

The Sharon Hospital Sharon CT	Rosalinda Parilla, M.D.	**
St. Francis Hospital	George Barrows, M.D. Ernesto Canalis, M.D. Donna Dooman, P.A.	8/97
St. Vincent's Medical Center Bridgeport CT	George Lowenski, M.D. Lorraine Carrano, M.D. (IRB)	**
Veterans Memorial Medical Center Meriden CT	Kyum S. Pyun, M.D.	**
Windham Memorial Hospital Windham CT	Nadia Nashid, M.D.	**
Winsted Memorial Hospital Winsted CT	bankrupt 1996	NA

**few cases expected from a small, fardistant location

Year 4-1b) Continue off-site training and monitoring of tissue collection personnel

We continue to use our defined protocols to obtain fresh frozen tissue. Given the present trend in diagnosis and therapy of breast masses we have taken two approaches. The first is to continue with an aggressive prospective acquisition of samples of tissue that are prepared and embedded in OCT medium such that frozen sections can be cut from the samples. If extra tissue is still remaining, additional aliquots are bulk-frozen in tissue cassettes in liquid nitrogen, and also, when requests are outstanding, collected in a fresh, viable manner. The larger tumors, from which "bulk" specimens are available, can be used for nucleic acid or protein extraction after grinding the frozen tissue under liquid nitrogen in a mortar and pestle to obtain a fine frozen powder. Both the fast freezing and optimal maintenance of the samples (e.g. always transported on dry ice) have enhanced nucleic acid stability.

The second approach we have taken is applicable to samples such as small biopsies for which excess tissue is often not available from a gross specimen. In these cases, we can obtain extra frozen sections at the time a clinical section is done during an intra-operative consultation. Once the pathologist has concluded the consultation on a frozen specimen, an extra 10 sections are cut and stored on slides that are kept frozen at -80° C for future use. The remainder of the frozen specimen is handled as usual by the pathologist. We should note specifically that these slides are handled in the same manner as are the larger samples: no research use is made of any material before at least one week has elapsed after the final pathology report has been issued.

The success of our efforts to collect sections and slides is reflected in the fact that, although we collected 193 cases of breast tissue this year (25% more than the 151 we collected last year), we were able to distribute approximately 688 samples from 109 cases, including about 600 samples of sections and slides. Without our preparation and distribution of sections and slides, we would have had to exhaust our entire bank of frozen breast tissues and would still not have met the research demand.

Task 2) Establish comprehensive database linked to the CTBO tissue bank & designed to support multidisciplinary studies that utilize tissue samples

Year 4-2a) Continue information collection as above at YNHH and at phase I hospitals (online database incorporating data items outlined, computer network interfaces, protocols, and procedures to assure collection of the information outlined).

In year 1 we established the protocols to implement the database as proposed in the original application. The data files were resident in a Macintosh PowerPC 7100 fileserver and were created using FileMaker Pro 2.0 software. With the release of FileMaker Pro version 3.0 in early 1996, we completely redesigned the database files to take advantage of the fully relational aspects of the new FileMaker version. This major re-working of the PCTBO's own database has been completed. Examples of some of the new tissue reports can be found in appendix 3.

To respond to the long term need to provide ease of access to data on all databases for use by researchers, we had done work with the Yale Comprehensive Cancer Center [YCCC] and Yale New Haven Hospital. When the reorganization of the Clinical Research Office [CRO] at the YCCC was completed in late 1995, we met with Drs. Lee Schacter and Daniel Zelterman of the CRO to define common goals and potentials for sharing information and resources between the CRO and our core facility of the PCTBO. At a meeting in January 1996, we explored the efficacy of implementing a data warehouse architecture, where one could define and regularly download

applicable data from existing systems onto data warehouse running Oracle or some other database product. This would allow users running database query software at their desktops to query information from the data warehouse, reducing demand on the programming resources of existing systems, including the Pathology Information System and the Yale-New Haven Hospital Tumor Registry.

In the past year, purchase of a multitasking computer with ethernet and TCP/IP capabilities and hard disk storage has been accomplished. Software for data storage was evaluated: Oracle Clinical was brought on-site for many months before the decisin was made that it would not satisfy the demands of the program. Instead, programming staff were recently hired to define, configure, maintain, and archive a custom database using Oracle, with Microsoft Access front-end. We continue to actively work with the Breast Cancer Research Program. They obtained funding to support efforts to retrieve patient demographic, treatment, and followup data. This activity will start in August 1997. We will take the opportunity to piggyback on and expand the scope of their project to include references to the breast tissue samples available through the PCTBO. This goal will be actively pursued in year four of the PCTBO.

Samples of the most recent (6/98) data entry screens for this patient database project are given in appendix 1. We have been actively working with Dr. Cynthia Brandt in the Yale Center for Medical Informatics to further refine the patient and tissue databases. Information collected includes: Demographics and epidemiologic information such as known risk factors and family history; pathology and staging; treatment (surgeries, radiation including response to treatment, chemotherapy/endocrine therapy including response to treatment); and periodic (every 3 months) updates on disease status.

In addition to meeting with the CRO, we also have had ongoing interactions with Yale New Haven Hospital. The hospital, for reasons of more efficient management, state reporting requirements, and the goal of daily updates from all areas of the hospital, is working towards combining data from all of its computers. This project is making progress even with limited resources, and although it is transaction-oriented and not designed for research use, the fact that longitudinal data tracking will be more easily accomplished can in fact be made to serve research use as well. Our meetings to date have proved quite productive. The hospital is still in Phase I of a three-phase plan and working on the emergency department, ambulatory surgery, and inpatient clinic records collection on a daily rather than monthly schedule. The data involved will include all doctors orders and the operating room schedules. Although the Yale Physicians Building (where many breast cancer patients are seen and treated) is not in their Phase I plans, these data will be included in Phase II. In the interim, we continue to actively collaborate with people from Hospital Management and Information Systems, and for the shorter term, we are discussing the possibilities of prospectively designing additional fields in the Clinical Archive database that will serve breast cancer research needs.

Year 4-2b) Expand comprehensive information catchment to include additional phase I & II hospitals.

With the continuation of tissue collection routines from phase I hospitals, we also remain successful in retrieving information about the tissue specimens. Pathology reports at a minimum are submitted for each specimen, and this information collection is coordinated and accomplished by the travelling associate, Bonnie Kaye. All hospitals from which tissue is retrieved are supplying this comprehensive information. However, after information is recorded, we "anonymize" the tissue and related information because all of our off-site IRB approvals are for use of anonymous samples only. Last year we developed a simple and easy-to-use format that enables both collection of information about the tissue samples, and fail-safe anonymizing of the samples.

Remote data collection continues to be possible via modem access to the PCTBO FileMaker Pro database through AppleTalk Remote Access software. Appropriate security precautions have been implemented. We continue to collect Pathology Reports from sites, however, due to the limited time commitment that off-site hospital staff can make as the demands of managed care increase. The feasibility of direct downloading of data from pathology reports into the PCTBO database continues to be studied. The Pathology Department will upgrade to a new Pathology Information System in the second half of 1998, and direct data transfer will probably follow shortly thereafter. In the interim, copying and pasting of relevent data is utilized, and will probably remain the basis for most of our data acquisition, since this method allows human review of appropriate information entering the database.

Task 3) Prepare and distribute breast tissue samples from the CTBO repository to investigators

Year 4-3a) Continue tissue and DNA/RNA collection and distribution

Protocols for tissue request and distribution continue to function well. In cooperation with the Yale Human Investigation Committee, we have designed a specific approval form to supplement the information and service request forms already in use. The new form (see appendix 6) gives all the useful infomation that we require in order to satisfy the HIC approval given to investigators to receive patient tissue. We continue to work closely with the Yale Human Investigation Committee to insure that all programs involving research use of samples of archival or fresh frozen human breast tissue are channeled through the PCTBO. As we expected, as information is disseminated about our bank, frozen samples are increasingly being requested.

Extraction of DNA from frozen sections and from archival paraffin tissues continues to be routinely done in our laboratories. Extraction of standard quality RNA from thick (10-20 μ m) frozen sections (and in some cases from paraffin blocks) is also routinely accomplished. Given the minimal size of the breast biopsies and the lesions contained in the tissue, collection of very high quality RNA is limited to large tumor specimens.

Over the past year of collection (July 1997 to June 1998), we have obtained 1803 parts from breast cases, drastically up from the 589 parts collected in year 1, and even increased over the 1016 parts collected in year 2 and 1704 in year 3. The major reason for this increase continues to be the fact that frozen section slides are collected at the time of diagnosis, and held in the bank until the case is signed out. A detailed list of cases collected is included in appendix 2.

Collections of excess breast cells from the Cytology section of the Department of Pathology was continued in collaboration with Dr. David Rimm, cytopathologist. See appendix 3 for list of these specimens. The excess volume of fine needle aspirations (collected with a Cyctec apparatus) have been stored and catalogued, and are available for research use. This new source of breast cells is proving to be of enormous value.

Distribution of breast tissues and tissue products has occurred from two different modules this year: tissue distribution from all frozen cases collected previously are summarized in the appendix 4 report "Tissue Distribution," and total about 700 samples. An additional distribution of breast specimens, of approximately one-third of the 15,653 tissue products produced by the Research Histology component of the PCTBO, are from paraffin breast samples, and are not listed in this report. The large number distributed from previously banked samples only serves to emphasize the enormous power of the system of centralized collection and critical distribution of only those types and amounts of tissues actually needed by each investigator. The fact that 760 patient cases originally collected still have some tissue left in the bank represents a dramatic increase in numbers available for further research.

Year 4-3b) Complete inventory and review of paraffin archive, and their indexing to CTBO database (Total paraffin collection > 1 million blocks)

With our continuing work on the resource of archival paraffin specimens, the paraffin archives themselves have been substantially improved. Last year we successfully finished the complete reorganization of over 3 million paraffin blocks, physically sorted and refiled all blocks, and consolidated the warehouse locations of the paraffin blocks from 3 separate sites to 2 closer, climate-controlled sites. These overall improvements have made a huge difference in ease of use of this most valuable resource, and is reflected in the large number of recuts requested from the blocks.

Of 900,000 cases cases available in paraffin from the pathology archives, data from the Yale Tumor Registry indicate that 10,750 are of breast cancer, including both invasive and in situ. In the past year, we have identified specific computer-based pathology accession numbers for the remainder of these not identified on the computer last year. The same report definitions as listed in last year's report were used for the completion of this task. We completed the process of identifying specific blocks from each case in which breast cancer is present. This labor- and time-intensive process was started with identification of ductal carcinoma in situ cases, and later moved to invasive cancer. For this, our work has been much easier since the invasive tumors tend to be much larger than the in situ carcinomas we reviewed for the last report. We review pathology reports to find the designated tumor block. Reliance on the path report for tumor ("T") or primary tumor ("P" or "PT") block designations is sufficient for most of the invasive cases.

Year 4-3c) Continue to advertise availability of breast cancer tissue for research.

The Yale Comprehensive Cancer Center's Breast Cancer Research Program meets on a monthly basis for presentation of research seminars and ongoing communication among all breast cancer researchers at Yale School of Medicine, Yale University, and Yale-New Haven Hospital. At these monthly gatherings we continue to present information about the currently available breast tissue (frozen and paraffin-embedded), as well as general information about the ability to set up prospective collection protocols and our interface with the Yale Tumor Registry for identification of breast cancer cases. The Program for Critical Technologies World Wide Web page (http://info.med.yale.edu/pathol/crittech/ct.htm). We have received inquiries from researchers about our resource, and have entered into an agreement with a researcher in California to provide samples from over 200 of our breast cases, should she receive funding. All appropriate administrative requirements, including IRB approvals and a Material Transfer Agreement (see appendix 11), have been completed. We expect ongoing inquiries about our resource. Because of the tissue we have available (see appendix 5)—760 cases, and over 5000 samples—and because we provide usually provide portions of the samples rather than whole tissues, we expect to be able to supply most of the breast cancer researchers who approach us.

Task 4) Develop and offer on a minimal fee-for-service basis routine molecular and histologic tissue analyses of relevance to breast cancer. Of particular interest are assays that can be carried out on minimal tissue samples.

Year 4-4a) Continue to offer routine analyses [assays from previous years: p53, prad, ras, neu, microsatellite repeat variability, histochemistry and immunohistochemistry].

The detailed methods developed in year 1 and reported in our annual report of July 1995 have been standardized for routine performance upon request of investigators. These include a functional

assay for p53, PCR analysis of PRAD-1 (Cyclin D1), assay for NEU oncogene function, Somewhat surprisingly, researchers most often request immunostains for various oncogenes and tumor suppressors, including p53, neu, alpha-catenin, E-cadherin, and bcl-1/prad-1, rather than PCR-based assays. We have worked extensively on further refinement of immunostaining protocols, including specific work to adapt and optimize use of commercially-available antibodies on paraffin-embedded tissues. Often these antibodies have not been tested on paraffin sections, and we have been successful in a number of cases. Two protocols were very effective: the use of recent antigen-retrieval method of pressure-cooking, and use of a commercially available "one-step" method of staining (Dako EnVision system, antibody and HRP coupled to an inert polymer backbone; or "universal" secondary with poly-HRP). Both of these techniques can be applied to any immunohistochemical staining protocol. Pressure-cooking can also be utilized in immunoblots.

Year 4-4b) Establish protocols for analysis of at least three additional genes as noted in Table 1 or for other candidate genes as they become recognized

As noted above, because most investigators are interested in immunohistochemistry-based assays for changes in oncogenes and/or tumor suppressor genes, in this fourth year of the project we continue to concentrate on this type of molecular analysis. We currently have protocols for use of either commercially-available or lab-made antibodies for a wide range of proteins implicated in breast cancer, including p53, neu/erbB2 including one specific for the biologically active phosphorylated form of the protein), estrogen receptor, progesterone receptor, alpha-catenin, E-cadherin, and DCC. In the past year we have critically examined antibodies newly available for p53, neu/erbB2, c-met, and various angiogenic factors including VEGF and FGF. We analyzed and compared commercially available antibodies for use on paraffin sections.

We tried different antibodies, and several antigen retrieval methods including a microwaving based protocol (using a number of different incubation solutions) and a pressure cooking protocol (using a citrate solution). We found the pressure cooking protocol to enhance the staining intensity without causing previously negatively characterized specimens to appear positive. Unlike the Ab-1 which we had been using for neu/erbB2, the antibody cb-11 does not require pressure cooking pretreatment, and we have simplified our protocol for that antigen.

Year 4-4c) c) Continue to advertise these services to breast cancer investigators as above.

Although at first it might seem that "routine" immunostains for breast tissues would not cause much response among investigators, the opposite is in fact true. We have advertised our immunostaining services, and many researchers have expressed interest in the newly developed and optimized ER, PR, p53 and neu/erbB2 stains for their breast tissues. As noted above, are constantly identifying and evaluating new antibodies and staining protocols so that we may offer state-of-the-art immunohistochemistry to breast cancer researchers.

Conclusions

The fourth year of support for the Program for Critical Technologies in Breast Oncology has seen many encouraging developments for this important core facility. We have increased the numbers of off-site hospitals involved in the Program. We finished conversion of a database uniquely suited to our collection, assay, and distribution of tissue products along with anonymous information describing the tissue samples. We collaborated with the Breast Cancer Research Program to obtain patient information for the tissue samples we hold. We continue to work intensely and collaboratively with many different parts of the Hospital, Medical School, University, and Cancer Center to streamline efficient data collection and access. Our numbers of collected breast tissue

samples again more than doubled in the past year, and we have distributed more than 14,000 tissue products since the start of the Program.

We are in the fourth year of collecting and distributing breast cytology specimens, a tissue source not widely available at any institution. We have completely reorganized more than 3 million paraffin blocks so that easy, efficient access is a rule rather than an exception, and have identified all computerized breast cases with malignancies for which blocks are available. We have expanded the research community's knowledge of and requests to the PCTBO for breast tissue products and related clinical information about the samples. We continue to develop translational research, moving research assays closer to clinical utility.

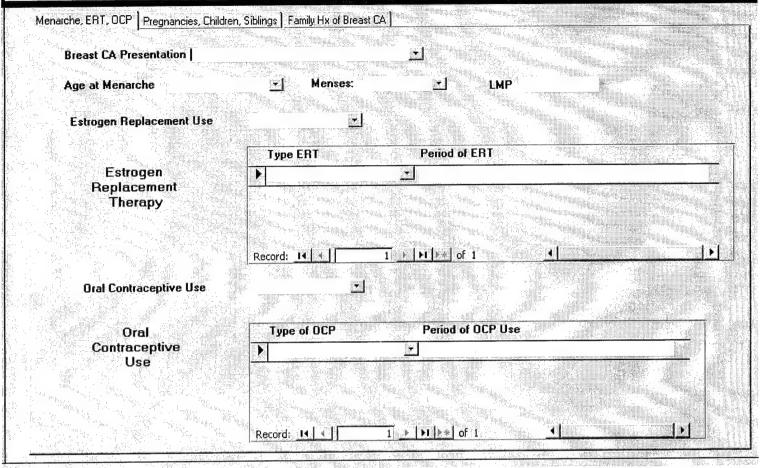
In the future, we will continue in the forward direction toward the goals of the PCTBO. The PCTBO continues to be enthusiastically received by the research community, and is serving as a resource and model for other academic centers' efforts in setting up similarly successful programs.

Appendices

Appendix 1: New data entry screens and collection sheets for patient data

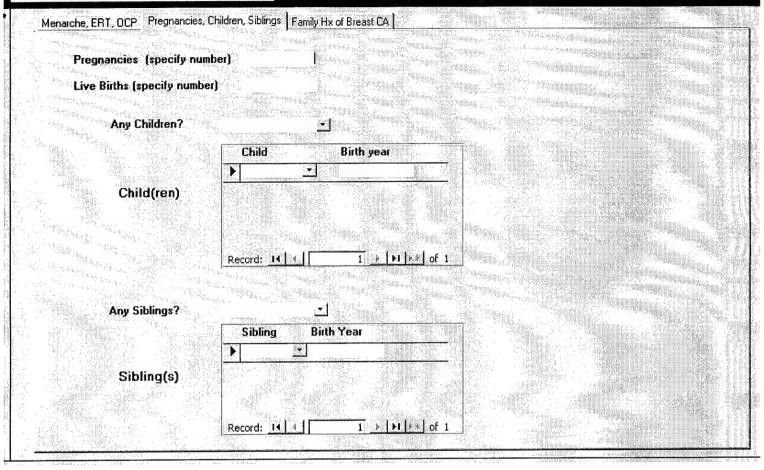


Patient Medical History (Related to Breast Cancer)



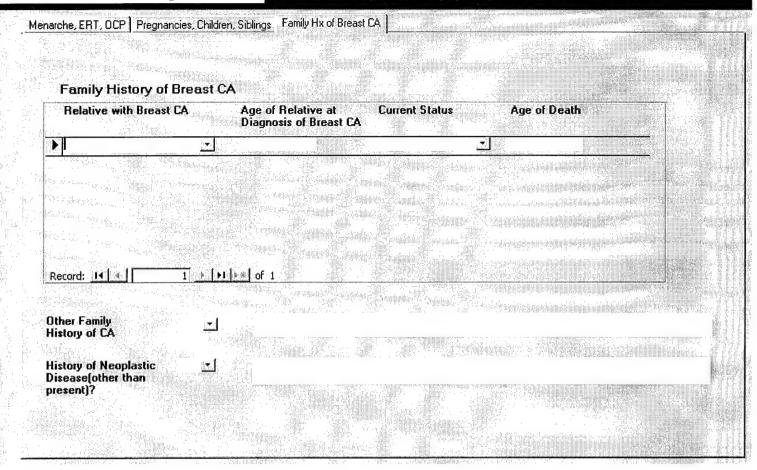


Patient Medical History (Related to Breast Cancer)





Patient Medical History (Related to Breast Cancer)



Patient Medical History (Related to Breast Cancer)

Italicized items are not optional.
Patient Medical History (Related to Breast Cancer)
Age at Menarche [] 10 or younger
[] 11 [] 12 [] 13
[] <i>14</i> [] <i>15</i>
[] 16 or older [] Missing data
[] Unknown
Menses:
[] Regular [] Irregular
[] None
[] Missing data [] Unknown
[] Onknown
LMP:
Pregnancies (specify number): Live Births (specify number)::
Estrogen Replacement Therapy
[] yes
[] no [] Unknown
Oral Contraceptive Use
[] yes
[] no [] Unknown
Children?
[] yes
[] no
[] Unknown
Siblings?
[] yes [] no
[] Unknown
Breast CA Presentation
[] palpable mass and mammography
[] mammography only [] palpable mass only
[] unknown

Annual report, José Costa, M.D.

Type ert	Ty	pe	ert
----------	----	----	-----

Type ERT	Description of ERT

OCP Type

Type of OCP	Description of OCP use	

Birth Yr of Children

Type of Child	Birth year
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	<u> </u>
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	
[] <i>Daughter</i> [] <i>Son</i>	<u> </u>
[] <i>Daughter</i> [] <i>Son</i>	

Sibling

Sibling	Birth Year
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	<u> </u>
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	<u> </u>
[] <i>Brother</i> [] <i>Sister</i>	
[] <i>Brother</i> [] <i>Sister</i>	

Family History of Breast CA

Relative with Breast CA	Age of Relative at diagnosis of Breast CA	Current Status	Relative with Breast CA age of death
		_	
_			
_			
		_	

	Chaine	for	Current	Ctatus
ł	Choices	tor	Current	Maius:

- 1. Alive, No evidence of Disease
- 2. Alive, with disease
- 3. Alive, disease status unknown

- 4. Dead, without disease
- 5. Dead, with disease
- 6. Dead, disease status unknown
- 7. Lost to follow-up

PMH Other	
[] <i>No</i>	
[] <i>Yes</i>	
[] Unknown	
PMH Other description:	

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History of Neoplastic Disease(other than present)?	
[] <i>No</i>	
[] Yes	
[] Unknown	
Neonlasms (hist) description:	

Y ale Cancer Center	Breast Cancer Research Program	Pathology Repo	t	And the second s
Tissue/Notes Grades/Sta	ges DNA Index			
Pathology #		Accession Date	Sign out Date	
Suigeon		Pathologist		
Tissue Source				
		oss description of Tissue		
Rec	ord; 14 1	* [31] * of 1		
Final Diagnosis	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Note		
# Nodes Examined				
# of Nodes Positive				

Size of Tumor (cm)

Margins of excision

	Breast Cancer Research Program	Pathology Report
Tissue/Notes Grades/Stages	DNA Index	
Breast CA Current P	athological Stage	
Estrogen rece		Progesterone receptors
H-score (0-100)		score (0-100)
2 Positive (0-100)	2 Pos	sitive (0-100)
(pmol/mg)		(pmol/mg)
T Stage	LLP WEBSCHOOL TO THE PROPERTY	
N Stage		
M Stage		

Y Cancer Center	Research Program	Pathology Report
Tissue/Notes Grades/Stages	DNA Index	
≈ Cells Diploid		
60-61 Diploid (%)		
S Diploid (%)		The first the state of the stat
G2-M Diploid (%)		
≵ Cells Aneuploid		
G0-G1 Aneuploid (%)		
S Aneuploid (%)		
G2-M Aneuploid (%)		
	DNA Index (DI)	
	Coefficient of Variation (CV)	

Breast Cancer

Pathology Report

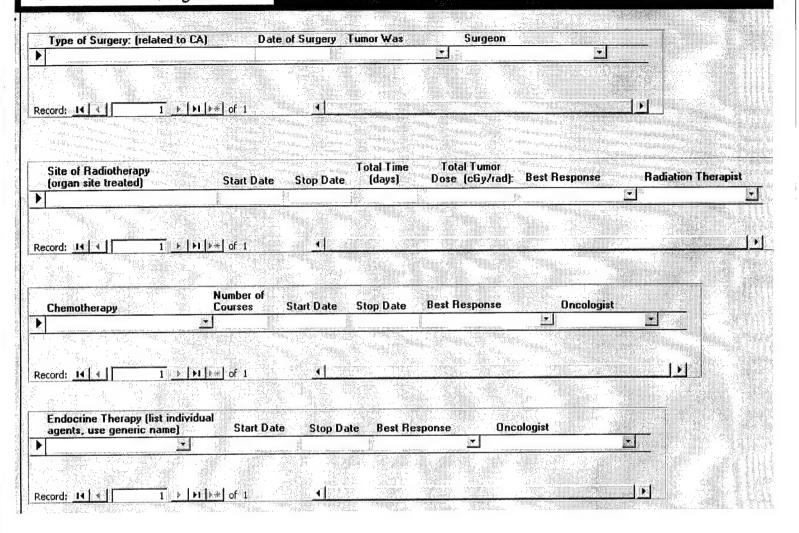
Italicized items are not optional.
Pathology Report
Accession Date:
Sign out date:
Pathology Report Pathology Number:
Surgeon:
Pathologist:
Pathology Report Tissue Source:
Final Pathology diagnosis:
Breast CA Histological Grade
[]I
Nuclear grade
[]I
Breast CA estrogen receptors - H-score:
ER % Positive (0-100):
Breast CA estrogen receptor (fmol/mg):
- (0.100)
Breast CA progesterone receptor - hscore (0-100):
PR % Positive (0-100):
Breast CA progesterone receptor -fmol/mg:
December 1 Community December 1 Community Comm
Breast CA Current Pathological Stage
[] NED
[] 0 in situ carcinoma
[] I invasive, LN negative
[] II invasive, LN positive
[] IIIA locally advanced, resectable
[] IIIB locally advanced, non-resectable
[] IV metastatic
[] Unknown
Pathology report note:
T Stage
[] TX Primary tumor cannot be assessed
[] TO No evidence of primary tumor
[] Tis Carcinoma in situ: intraductal CA, lobular CA in situ, or Paget's disease
[] TI Tumor 2 cm or less in greatest dimension
The Tumor wore than 2 cm but not more than 5 cm
T3 Tumor more than 5 cm in greatest dimension
[] T4 Tumor of any size with direct extension to chest wall or skin
111. Tamos of any one man an extraordistrict and an extraordistrict

Annual report, José Costa, M.D.

[] N0 No re [] N1 Metas [] N2 Metas	onal lymph nodes cannot be assessed gional lymph nodes metastasis stasis to movable ipsilateral axillary lymph node(s) stasis to ipsilateral axillary lymph node(s) fixed to one another or to other stasis to ipsilateral internal mammary lymph node(s)
[] M0 No di	ence of distant metastasis cannot be assessed istant metastasis int metastasis (includes metastasis to ipsilateral supraclavicular lymph node)
# Nodes Exam	ined:
	cable
Tissue Desc	cription
Label	Gross description of Tissue
Part 1:	
Part 2:	
Part 3:	
Part 4:	
DNA	
% Cells Diplo	id:
G0-G1 Diploi	d (%):
S Diploid (%)	
G2-M Diploid	7(%):
% Ceus Aneur	0101a:
GU-GI Aneup	loid (%):
3 Aneupioia (? G2 M Anaun).	%): pid (%):
G2-M Aneupio DNA Index (D	
,	Variation (CV):

V ale Cancer Center Breast Cancer Research Program

Surgery, Radiation, Chemotherapy, Endocrine



Annual report, José Costa, M.D.

Surgery, Radiation, Chemotherapy, Endocrine

Italicized items are not optional.

Surgery Related to CA

Date of Surgery	Type of Surgery:	Outcome of Surgery:	Surgeon
//			
'			
'			
//			

Choices for Outcome of Surgery::

- 1. Biopsied
- 2. Resected
- 3. Partially resected
- 4. Not resected
- 5. Not found

Radiation Therapy

Therapy Start Date	Therapy Stop Date	Site of Radiotherapy	Radiotherap y Total Time	Total dose of Radiotherapy (cGy/rad):	Best Response to Radiotherapy:	Radiation Therapist
'						
//					<u></u>	
//						
//						

Choices for Best Response to Radiotherapy::

- 1. Complete
- 2. Partial
- 3. Stable_disease
- 4. Progression
- 5. Indeterminate
- 7. Not applicable (adjuvant)

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Appendix 1, Page 29

Chemotherapy

Start date	Stop date	Chemotherapy Agent:	Chemotherapy, Number of Courses:	Best Response to Chemotherapy:	Medical Oncologist
//	//				
//	//				·
//	//				
//	/				
//	//				
//	//				

Choices for Best Response to Chemotherapy::

- 1. Complete
- 2. Partial
- 3. Stable_disease
- 4. Progression
- 5. Indeterminate
- 7. Not applicable (adjuvant)

Endocrine Therapy

Start Date	Stop Date	Endocrine Therapy (list individual agents, use generic name)	Best Response	Medical Oncologist
//				
//				
/				
//_				
//				

Choices for Best Response:

- 1. Complete
- 2. Partial
- 3. Stable_disease
- 4. Progression
- 5. Indeterminate
- 7. Not applicable (adjuvant)

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1	/	al C:		cei
Dat Foll	e of	As	ses	Takey

Follow-Up

Date of Assessment	Date of last	
Follow-Patient Status	follow-up contact	
	Date of Death	
	Cause of Death	
Relapse/progression? (specify site(s))	If lost to f/u) Date Last Known Alive	
Date of New Primary Breast CA	Date of Relapse/ Progression	
Current Clinical		
Stage Current Pathological Stage		
T Stage		
N Stage		
M Stage		
Comments:		

Breast CA F/u

Italicized items are not optional.
Date of Assessment:
Follow-Patient Status
[] Alive, No evidence of Disease
[] Alive, with disease
[] Alive, disease status unknown
[] Dead, without disease
[] Dead, with disease
[] Dead, disease status unknown
[] Lost to follow-up
Date of last follow-up contact:
Date of Death:
Cause of Death:
Cause of Death: Date Last Known Alive:
Date of Relapse:
Relapse/progression sites:
Current Clinical Stage
[] NED
[] 0 in situ carcinoma
[] I invasive, LN negative
[] II invasive, LN positive
[] IIIA locally advanced, resectable
[] IIIB locally advanced, non-resectable
[] IV metastatic
[] Unknown
Current Pathological Stage
[] NED
[] 0 in situ carcinoma
[] I invasive, LN negative
[] II invasive, LN positive
[] IIIA locally advanced, resectable
[] IIIB locally advanced, non-resectable
[] IV metastatic
[] Unknown
Date of New Primary CA:
Comments::
T Stage
[] TX Primary tumor cannot be assessed
[] TO No evidence of primary tumor
[] Tis Carcinoma in situ: intraductal CA, lobular CA in situ, or Paget's disease
[] T1 Tumor 2 cm or less in greatest dimension
[] T2 Tumor more than 2 cm but not more than 5 cm
[] T3 Tumor more than 5 cm in greatest dimension
[] T4 Tumor of any size with direct extension to chest wall or skin
N Stage
[] NX Regional lymph nodes cannot be assessed
[] NO No regional lymph nodes metastasis
[] NI Metastasis to movable ipsilate Annual are porph José Gosta, M.D.

[] N2 Metastasis to ipsilateral axillary lymph node(s) fixed to one another or to other
[] N3 Metastasis to ipsilateral internal mammary lymph node(s)
M Store
M Stage
[] MX Presence of distant metastasis cannot be assessed
[] M0 No distant metastasis
[] M1 Distant metastasis (includes metastasis to ipsilateral supraclavicular lymph node)

Appendix 2: Breast cases collected, July 1997 to June 1998

Print Date: 7/16/98	₂ 8/28/97 S	8/28/97	8/26/97 S	8/25/97 S	8/25/97 S	8/25/97 S	8/22/97 S	8/22/97 S	8/20/97 S	8/19/97 S	8/19/97 S	8/18/97 S	8/14/97 S	8/12/97 S	8/1/97 S	7/30/97 S	7/24/97 S	7/23/97 S	7/22/97 S	7/17/97 S	7/17/97 S	7/15/97 S	7/15/97 S	7/14/97 S	7/14/97 S	7/10/97 S	7/9/97 S	7/14/97 S	7/10/97 S	7/9/97 S		Frozen
7/16/98	S97-17313	S97-17313	S97-17134	S97-17041	S97-17031	S97-17031	S97-16976	S97-16938	S97-16744	S97-16678	S97-16601	S97-16601	S97-16373	S97-16199	S97-15466	S97-15245	S97-14835	S97-14748	S97-14696	S97-14308	S97-14308	S97-14149	S97-14061	S97-14012	S97-13980	S97-13835	S97-13661	S97-7793	S97-7788	S97-7787	S97-7733	Type & No.
Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type
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hnologies		_	2			2	_			N		->		2	_	_		_		>	_							2	4	4		Tumor
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ular Medi	23			23	23				23		8											23	23	23	23	23	23				23	Tumor
cine by C												-																	_			Snap Normal
. L. Howe												>																	_			Tumor
& B. R. L													_	2					2													Parattin Normal
													_	N					2													Tumor
© 1997													_																			Normal
													_																			Tumor
													Saline				Pag	e 3	5					Аp	per	ndix	κ 2					distr.

Tissue Bank Collections By Tissue Type

Report Period: 7/97 to 6/98

		© 1997		L. Howe & B. R. Levine). L. Howe	edicine by C	ecular Me	ies in Mol	echnologi	Critical Te	ogram for	ed for the Pro	Database developed for the Program for Critical Technologies in Molecular Medicine by C.	: 7/16/98	Print Date: 7/16/98
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							23						Breast	S97-24608	12/3/97
									_	_	<u></u>	central	Breast	S97-24608	12/3/97
Own	_	_					23		Çī	ΟΊ	_		Breast	S97-24608	12/3/97
Own	>	_							ω	ω	_		Breast	S97-24541	12/2/97
	_	_							2	2	_		Breast	S97-24087	11/25/97
Saline	_								_		_		Breast	S97-24058	11/25/97
							15						Breast	S97-23692	11/20/97
									-	_	_		Breast	S97-23692	11/20/97
			ω	ω							_		Breast	S97-23569	11/21/97
			_	_									Breast	S97-23553	11/19/97
									Οī	ω	_		Breast	S97-23233	11/14/97
					2					2	_		Breast	S97-23151	11/13/97
			_	->							_		Breast	S97-22518	11/5/97
									2	2			Breast	S97-22269	11/3/97
									2	2			Breast	S97-21876	10/28/97
							23						Breast	S97-21418	10/22/97
									_	_	_		Breast	S97-21296	12/23/97
							15						Breast	S97-21285	10/21/97
							23						Breast	S97-20120	10/6/97
							23						Breast	S97-19666	9/30/97
					N								Breast	S97-19494	9/26/97
							23						Breast	S97-19412	9/26/97
					4	2					-		Breast	S97-19398	9/25/97
							23						Breast	S97-19222	9/24/97
							23						Breast	S97-19141	9/23/97
							23						Breast	S97-19109	9/23/97
							23						Breast	S97-18774	9/18/97
			_		4								Breast	S97-18774	9/18/97
									_	_	_		Breast	S97-18598	9/16/97
RPMI	_	_								_			Breast	S97-18053	9/9/97
r distr.	Fresh Tumor	Fresh Normal	Paraffin Tumor	Paraffin Normal	Snap Tumor	Snap Normal	Slide Tumor	Slide	OCT	OCT Normal	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen

Report Period: 7/97 to 6/98

Date Accession Total Cases Cases Wigatirs Normal Infraction Inf	97	evine © 1997	e & B. R. L	C. L. How	dicine by (ecular Me	es in Mol	chnologi	Critical Te	gram for (Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine	Database devel	e: 7/16/98	Print Date:
Accession				2	_					_		Breast	S98-1324	1/19/98
Accession Tissue type Cases wipairs Normal Tumor Normal T				_				_	_	_		Breast	S98-1176	1/16/98
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Accession Tissue type Total Cases (Cases (C						23						Breast	S98-184	1/14/98
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Accession Total Cases OCT OCT Slide Slide Snap Snap Snap Snap Snap Snap Snap Snap								4	_	_		Breast	S97-25311	12/11/97
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	al Tumor Normal	<u>s</u> 2	Norm	Snap Tumor	Snap Normal	Tumor	1	Tumor	Normal	w/pairs	Cases	Tissue type	Type & No.	Frozen

Tissue Bank Collections

By Tissue Type

Report Period: 7/97 to 6/98

	Total Cases	Cases w/pairs	OCT Normal	OCT	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	No Fr	esh rmal
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Breast		_	N	_			_	>				
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Report Period: 7/97 to 6/98

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						8							Breast	S98-11856	6/3/98
Touch	2												Breast	S98-11716	6/2/98
touch prep	5		->						_	_	_		Breast	S98-11482	5/29/98
touch prep	Ö								2				Breast	S98-11190	5/26/98
touch prep	Οī								2				Breast	S98-11171	5/26/98
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Touch	4												Breast	S98-10939	5/21/98
						_							Breast	S98-10542	5/15/98
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Touch	4	2											Breast	S98-10484	5/15/98
touch prep	5	2	_	_			23		ω	2	<u>~</u>		Breast	S98-10454	5/15/98
			2	N									Breast	S98-10105	5/13/98
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touch pre									_	_	<u> </u>		Breast	S98-9772	5/7/98
e 3							4	N			-		Breast	S98-9500	5/4/98
0						_					<u>.</u>		Breast	S98-9396	5/1/98
					-7	_					_		Breast	S98-9251	4/30/98
touch	4	2											Breast	S98-9060	4/28/98
							œ						Breast	S98-8995	4/28/98
			_		_	_					_		Breast	S98-8914	4/27/98
Δn					_	_					_		Breast	S98-8467	4/21/98
touch pen	ζī	N											Breast	S98-8467	4/21/98
div							15						Breast	S98-8386	4/22/98
2							15						Breast	S98-8386	4/20/98
touch	ហ	N							_		_		Breast	S98-7921	4/14/98
							23						Breast	S98-7743	4/9/98
									_	_			Breast	S98-7743	4/9/98
							23						Breast	S98-7472	4/7/98
fresh distr.	Fresh Tumor	Fresh Normal	Paraffin Tumor	Paraffin Normal	Snap Tumor	Snap Normal	Slide Tumor	Slide Normal	OCT	OCT Normal	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen
														-16.	

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Print Date: 7/16/98

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Report Period: 7/97 to 6/98

				-3							_	breast	Skin	S97-18712	9/17/97
RPMI		2										breast	Skin	S97-17543	9/2/97
RPMI		2										breast	Skin	S97-17358	8/28/97
RPMI		_										breast	Skin	S97-7745	7/9/97
RPMI												breast	Skin	S97-7745	7/9/97
			_		2	>	8		17	4	-1	20 20	LYMPH NODE 2	LYM	
							œ					axillary	Lymph node	S98-8763	4/24/98
									_			axillary	Lymph node	S98-8599	4/22/98
									_			axillary	Lymph node	S98-6114	3/20/98
									2			axillary	Lymph node	S98-5052	3/6/98
					_	_						axillary	Lymph node	S98-5052	3/6/98
									>			axillary	Lymph node	S98-4234	2/25/98
									_			axillary	Lymph node	S98-3882	2/28/98
									_			axillary	Lymph node	S98-3208	2/11/98
									_			axillary	Lymph node	S98-1933	1/27/98
Pa									_			axillary	Lymph node	S97-24538	12/2/97
ge									_			axillary	Lymph node	S97-21634	10/24/97
40									_			axillary	Lymph node	S97-18432	9/12/97
									_			axillary	Lymph node	S97-17054	8/25/97
									_			axillary	Lymph node	S97-16804	8/20/97
									_			axillary	Lymph node	S97-15545	7/4/97
										_		axillary	Lymph node	S97-15413	7/31/97
A										2		axillary	Lymph node	S97-14518	7/21/97
ppe					_				_			axillary	Lymph node	S97-14518	7/21/97
ndi									2			axillary	Lymph node	S97-13344	7/3/97
ix 2										_		axillary	Lymph node	S97-10916	8/6/97
	96	24	23	22	38	32	1291	2	112	125	81	158 158	BREAST 1		
Touch	თ												Breast	S98-13673	6/25/98
Touch	თ												Breast	S98-13490	6/25/98
touch prep	თ				_	_			_	_	_		Breast	S98-13197	6/19/98
fresh distr.	Fresh Tumor	Fresh Normal	Paraffin Tumor	Paraffin Normal	Snap	Snap Normal	Slide Tumor	Slide Normal	OCT	Normal	W/pairs	Total	Tissue type	Accession Type & No.	Frozen

Report Period: 7/97 to 6/98

	96	46	24	23	40	34	1299	2	130	129	83	193	193	TOTALS:	70	
		22		_		_			_		_	15	15	SKIN		
Fresh		2										breast		Skin	S98-13965	6/29/98
Fresh		_										breast		Skin	S98-13785	6/26/98
Fres		2										breast		Skin	S98-13020	6/17/98
Salineer		2										breast		Skin	S98-9215	4/29/98
Saline		2										breast		Skin	S98-8525	4/21/98
Saline		_										breast	_	Skin	S98-6899	3/31/98
Saline		2										breast	_	Skin	S98-5644	3/13/98
RPMI		_										breast		Skin	S98-5134	3/9/98
												breast		Skin	S97-22844	11/10/97
RPMI		2										breast		Skin	S97-22206	10/31/97
distr.	Tumor	Fresh Normal	Parattin Tumor	Parattin Normal	Snap Tumor	Snap Normal	Slide	Slide Normal	Tumor	w/pairs Normal Tumor Normal	Cases w/pairs	Cases		Tissue type	Accession Type & No.	Date Frozen

Appendix 3: Breast cytology cases collected, July 1997 to June 1998

Report Period: to 6/30/98

Cytology Tissue Bank Breast related specimens

Date Frozen	Accession & part		Tissue type	Cytology Volume	Cytology Box #	Diagnosis
6-5-95	C95-4439	2	FNA BREAST WASH	12	24	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
6-6-95	C95-4489	2	FNA RT BREAST	20	24	FINE NEEDLE ASPIRATE, RIGHT BREAST:
6-8-95	C95-4575	2	LEFT BREAST,	10	23	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
6-15-95	C95-4780	2	RIGHT BREAST,	20	23	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
7-11-95	C95-5377	2	FNA LEFT BREAST	7	25	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
7-14-95	C95-5539	2	FNA LT BREAST WASH	10	24	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
7-17-95	C95-5540		FNA LT BREAST FL	12	24	LEFT BREAST CYST, FINE NEEDLE ASPIRATE:
7-18-95	C95-5632	2	FNA RT BREAST	20	21	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
7-24-95	C95-5810	2	BREAST FNA-FINE	10	21	FINE NEEDLE ASPIRATION, RIGHT BREAST, 2
7-24-95	C95-5814		BREAST FNA	10	21	BREAST, FINE NEEDLE ASPIRATION, LEFT, 9
7-24-95	C95-5825	2	HEAD/NECK WASH	7	21	PARTS 1 + 2 FINE NEEDLE ASPIRATE, SUBGLOTTIC
7-28-95	C95-5975	2	FNA WASH BREAST	10	20	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-1-95	C95-6047	2	FNA RT BREAST	3	20	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-3-95	C95-6140	2	FNA LT BREAST WASH	2	20	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-7-95	C95-6241	2	FNA RT STEREO	17	19	1,2) RIGHT STEREOTACTIC BREAST, FINE NEEDLE
8-7-95	C95-6241	1	FNA RT STEREO	20	19	1,2) RIGHT STEREOTACTIC BREAST, FINE NEEDLE
8-7-95	C95-6257	2	FNA LT BREAST WASH	20	19	1,2) LEFT BREAST, FINE NEEDLE ASPIRATION:
8-11-95	C95-6395	2	FNA RT BREAST	15	19	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-14-95	C95-6420		FNA LT BREAST	10	19	LEFT BREAST, FINE NEEDLE ASPIRATE:
8-15-95	C95-6495	2	FNA BREAST WASH	5	18	1) FINE NEEDLE ASPIRATE, AXILLAE, LEFT:
8-15-95	C95-6497	2	FNA LT BREAST	20	18	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-18-95	C95-6620	2	FNA LT BREAST WASH	10	18	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-23-95	C95-6723		FNA LT BREAST WASH	20	18	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-23-95	C95-6759	2	LT BREAST WASH	2	18	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-25-95	C95-6844	2	FNA RT BREAST	15	18	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-28-95	C95-6858	2	FNA RT BREAST	5	18	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
8-29-95	C95-6897	2	FNA LT BREAST WASH	10	17	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
8-30-95	C95-6986	2	FNA RT BREAST WASH	10	60	SHEETS OF BENIGN DUCT CELLS
9-6-95	C95-7121	2	FNA LT BREAST	20	60	BLOOD AND MACROPHAGES ONLY
9-6-95	C95-7147	2	FNA LT BREAST WASH	20	61	NON-DIAGNOSTIC
9-12-95	C95-7272		FNA RT BREAST	15	17	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:

Cytology Tissue Bank Breast related specimens

Date Frozen	Accession & part #		Tissue type	Cytology Volume	Cytology Box #	Diagnosis
9-12-95	C95-7273	2	FNA LT BREAST 1:00	20	17	1-4) LEFT BREAST, 1:00, 2:00 FINE NEEDLE
9-12-95	C95-7273	4	FNA LT BREAST 2:00	10	17	1-4) LEFT BREAST, 1:00, 2:00 FINE NEEDLE
9-21-95	C95-7693	2	FNA LT BREAST WASH	17	16	1,2) LEFT BREAST, FINE NEEDLE ASPIRATION:
9-28-95	C95-7895	2	FNA RT BREAST	10	16	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
9-28-95	C95-7900	2	FNA LT BREAST WASH	10	16	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
10-4-95	C95-8084	2	BREAST FNA-FINE	5	15	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
10-5-95	C95-8122	2	FNA LT BREAST WASH	10	15	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
10-5-95	C95-8128	2	FNA LEFT BREAST	10	15	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
10-20-95	C95-8564	2	FNA LT BREAST WASH	15	13	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
10-23-95	C95-8668	2	FNA LEFT BREAST	17	13	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
11-1-95	C95-8978		FNA R BREAST	15	12	RIGHT BREAST, FINE NEEDLE ASPIRATE:
11-8-95	C95-9210		FNA LT BREAST FLUID	5	11	LEFT BREAST, FINE NEEDLE ASPIRATE:
11-10-95	C95-9261	2	FNA LT BREAST WASH	15	10	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
11-10-95	C95-9262	2	FNA LT BREAST WASH	20	10	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
11-20-95	C95-9534		RT BREAST CYST	15	9	RIGHT BREAST CYST ASPIRATION:
11-22-95	C95-9601	2	LEFT BREAST; FINE	15	9	1+2) FINE NEEDLE ASPIRATION; LEFT BREAST:
12-4-95	C95-9840		FNA RT BREAST	5	8	RIGHT BREAST, FINE NEEDLE ASPIRATE:
12-7-95	C95-10032	2	FNA RT BREAST	7	8	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
12-18-95	C95-10289		FNA RT BREAST	15	7	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
12-19-95	C95-10375		FNA LT BREAST	15	6	LEFT BREAST, FINE NEEDLE ASPIRATE:
1-2-96	C96-8		FNA RT BREAST	20	5	RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-4-96	C96-77	2	FNA RT BREAST	15	5	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-10-96	C96-197		FNA LT BREAST	10	4	LEFT BREAST, FINE NEEDLE ASPIRATE:
1-11-96	C96-221	2	FNA LT BREAST WASH	20	4	LEFT BREAST, FINE NEEDLE ASPIRATE:
1-12-96	C96-283		FNA RT BREAST	15	4	RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-17-96	C96-412		FNA LT BREAST ASP.	5	5	LEFT BREAST, FINE NEEDLE ASPIRATE:
1-17-96	C96-415	2	BREAST FNA-FINE	10	1	1,2) BREAST, FINE NEEDLE ASPIRATE:
1-24-96	C96-634		FNA RT BREAST	10	2	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-31-96	C96-885		FNA RT BREAST	20	1	RIGHT BREAST, FINE NEEDLE ASPIRATE:
1-31-96	C96-886	2	FNA LT BREAST WASH	10	1	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
2-5-96	C96-1062		LEFT BREAST CYST	15	1	LEFT BREAST CYST FLUID:

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Cytology Tissue Bank Breast related specimens

Date Frozen	Accession & part #	#	Tissue type	Cytology Volume	Cytology Box #	Diagnosis
2-13-96	C96-1291		FNA RT BREAST	П	3	RIGHT BREAST, FINE NEEDLE ASPIRATE:
2-15-96	C96-1402		FNA RT BREAST	3	3	RIGHT BREAST, FINE NEEDLE ASPIRATE:
2-22-96	C96-1566	2	FNA RT BREAST	5	3	1,2) RIGHT BREAST, FINE NEEDLE ASPIRATE:
2-23-96	C96-1617		FNA RT BREAST	15	4	RIGHT BREAST, FINE NEEDLE ASPIRATE:
3-6-96	C96-1965	2	FNA LEFT BREAST	10	27	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
3-26-96	C96-2576		LT BREAST NIPPLE	2	29	LEFT BREAST NIPPLE DISCHARGE:
4-10-96	C96-2990		Part: 1 FNA LEFT	17	31	1,2) LEFT BREAST, FINE NEEDLE ASPIRATE:
4-17-96	C96-3278		BREAST FNA-FINE	17	32	RIGHT BREAST SMEAR; FINE NEEDLE ASPIRATION:
4-18-96	C96-3325		LT BREAST CYST	12	32	-SEVERELY ATYPICAL CELLS (SEE NOTE)
4-25-96	C96-3507		FNA LEFT BREAST	20	32	- NEGATIVE FOR MALIGNANT CELLS
5-1-96	C96-3656		FNA RIGHT BREAST	5	33	- HIGHLY ATYPICAL NON-COHESIVE EPITHELIAL
5-9-96	C96-3938	2	FNA LEFT BREAST	17	34	- FEW BARE NUCLEI
5-9-96	C96-3947	2	FNA RIGHT BREAST	17	34	- POSITIVE: ADENOCARCINOMA CONSISTENT WITH
5-10-96	C96-3949	2	FNA RIGHT BREAST	15	34	- POSITIVE: ADENOCARCINOMA
5-13-96	C96-4028	2	FNA RIGHT BREAST	15	35	- MARKEDLY CELLULAR SPECIMEN SHOWING MIXED
5-16-96	C96-4178		FNA RIGHT BREAST	2	34	- POSITIVE FOR MALIGNANT CELLS
5-20-96	C96-4230		FNA LEFT BREAST	20	34	
5-22-96	C96-4326		FNA RIGHT BREAST	20	34	- NEGATIVE FOR MALIGNANT CELLS
5-23-96	C96-4403	2	FNA LEFT BREAST	20	36	- NEGATIVE FOR MALIGNANT CELLS
5-29-96	C96-4508	2	FNA LEFT BREAST	20	36	- POSITIVE FOR MALIGNANT CELLS (SEE NOTE)
6-3-96	C96-4615		FNA LEFT BREAST	20	37	- MARKED PURULENT EXUDATE CONSISTENT WITH
6-4-96	C96-4649	2	FNA RIGHT BREAST	10	37	- POSITIVE FOR MALIGNANT CELLS CONSISTENT
6-5-96	C96-4728		BREAST FNA-FINE	7	37	-CONTENTS OF CYST
6-6-96	C96-4768	2	BREAST FNA-FINE	17	37	POSITIVE: DUCTAL CARCINOMA WITH APOCRINE
6-10-96	C96-4834		RIGHT BREAST CYST	5	38	-SCATTERED SMALL CLUSTERS OF EPITHELIAL
6-11-96	C96-4839		BREAST FLUID	10	38	-NEGATIVE FOR MALIGNANT CELLS.
6-11-96	C96-4880	2	FINE NEEDLE	15	38	-NEGATIVE FOR MALIGNANT CELLS.
6-13-96	C96-4972	2	FNA RIGHT BREAST	20	38	-MARKEDLY CELLULAR SPECIMEN WITH CYTOLOGIC
6-13-96	C96-4977	2	FNA; RIGHT BREAST	20	38	-FEATURES CONSISTENT WITH LACTATIONAL
6-13-96	C96-4979		FNA; RIGHT BREAST	15	38	-NEGATIVE FOR MALIGNANT CELLS.
6-17-96	C96-5043		BREAST CYST FLUID	10	39	- NEGATIVE FOR MALIGNANT CELLS

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Cytology Tissue Bank Breast related specimens

Date Frozen	Accession & part #		Tissue type	Cytology Volume	Cytology Box #	Diagnosis
6-20-96	C96-5169		FNA RT BREAST FLUID	10	42	- NEGATIVE FOR MALIGNANT CELLS
6-27-96	C96-5374		FNA BREAST WASH	20	43	- VIRTUALLY ACELLULAR SPECIMEN
7-8-96	C96-5607	2	FNA LT BREAST WASH	20	40	- POSITIVE FOR MALIGNANT CELLS
7-11-96	C96-5755	2	FNA LT BREAST WASH	12	41	- FRAGMENTS OF FAT WITH A SUGGESTION OF FAT
7-15-96	C96-5827	2	FNA LT BREAST WASH	20	41	- PURULENT EXUDATE CONSISTENT WITH ABSCESS.
7-17-96	C96-5906	2	FNA LT BREAST WASH	20	41	- INADEQUATE SPECIMEN: FEW SQUAMOUS CELLS
7-18-96	C96-5935	2	FNA RIGHT BREAST	15	41	- PAUCICELLULAR SPECIMEN
7-18-96	C96-5966		FNA LT BREAST WASH	12	39	- CONTENTS OF A CYST AND FEW GROUPS OF
7-24-96	C96-6102	2	FNA LT BREAST WASH	10	39	-POSITIVE: DUCTAL CARCINOMA.
8-1-96	C96-6394		BREAST FNA-FINE	20	42	-NON-DIAGNOSTIC. SPECIMEN CONSISTS OF
8-1-96	C96-6396	2	BREAST FNA-FINE	20	42	-NEGATIVE FOR MALIGNANT CELLS.
8-2-96	C96-6455	2	RIGHT BREAST 11:00;	13	45	- NEGATIVE FOR MALIGNANT CELLS
8-8-96	C96-6590	2	FNA LT BREAST WASH	17	44	- NEGATIVE FOR MALIGNANT CELLS
8-8-96	C96-6634		FNA LT BREAST FLUID	20	44	- NEGATIVE FOR MALIGNANT CELLS
8-14-96	C96-6806	2	FNA LT BREAST WASH	20	45	- POSITIVE FOR MALIGNANT CELLS (SEE NOTE)
8-15-96	C96-6857	2	FNA RT BREAST WASH	15	46	- POSITIVE FOR MALIGNANT CELLS
8-19-96	C96-6921		LEFT BREAST CYST	20	46	- NEGATIVE FOR MALIGNANT CELLS
8-20-96	C96-6982		FNA LT BREAST WASH	20	46	- MARKEDLY ATYPICAL DUCT CELLS ARE PRESENT
9-4-96	C96-7385	1	FNA LT BREAST 3:00	20	48	- MARKED PURULENT EXUDATE CONSISTENT WITH
9-4-96	C96-7385	3	FNA LT BREAST 2:00	20	48	- MARKED PURULENT EXUDATE CONSISTENT WITH
9-5-96	C96-7421		FNA RT BREAST FLUID	16	48	- CYSTIC CONTENTS AND APOCRINE CELLS
9-5-96	C96-7463	2	FNA RT BREAST WASH	18	48	FEW GROUPS OF CYTOLOGICALLY BLAND BREAST
9-6-96	C96-7484	2	FNA RT BREAST WASH	15	48	- INADEQUATE FOR PROPER EVALUATION (NO
9-6-96	C96-7485	2	FNA BREAST WASH	10	48	- SCATTERED GROUPS OF CYTOLOGICALLY BLAND
9-9-96	C96-7572	2	RT BREAST CYST	20	49	- NUMEROUS NEUTROPHILS, POSSIBLY
9-13-96	C96-7784		FNA RT BREAST FLUID	10	49	- NEGATIVE FOR MALIGNANT CELLS
9-18-96	C96-7890	2	FNA LT BREAST WASH	10	50	- NEGATIVE FOR MALIGNANT CELLS
9-27-96	C96-8312	2	FNA LT BREAST WASH	10	51	- POSITIVE FOR MALIGNANT CELLS
10-1-96	C96-8384	2	FNA RT BREAST WASH	20	51	- NEGATIVE FOR MALIGNANT CELLS
10-2-96	C96-8457	2	FNA LT BREAST WASH	15	51	- NEGATIVE FOR MALIGNANT CELLS
10-3-96	C96-8463		FNA LT BREAST FLUID	15	51	- NEGATIVE FOR MALIGNANT CELLS

Cytology Tissue Bank Breast related specimens

Date Frozer	Accession #	Tissue type	Cytology Volume	Cytology Box #	Diagnosis
10-8-96	C96-8673 2	FNA LT BREAST WASH	52	52	- SEVERELY ATYPICAL CELLS (SEE NOTE)
10-10-9	6 C96-8784 2	BREAST FNA-FINE	20	52	-POSITIVE FOR MALIGNANT CELLS
10-16-9	6 C96-9030 2	FNA LT BREAST WASH	20	53	- NEGATIVE FOR MALIGNANT CELLS
10-17-9	6 C96-9076 2	FNA LT BREAST WASH	15	53	- NEGATIVE FOR MALIGNANT CELLS
10-21-9	6 C96-9168	RT BREAST FLUID	2	54	- NEGATIVE FOR MALIGNANT CELLS
10-29-9	6 C96-9460 2	FNA LT BREAST WASH	10	56	SEVERELY ATYPICAL CELLS (SEE NOTE)
10-31-9	6 C96-9546 2	FNA LT BREAST WASH	17	56	SEVERELY ATYPICAL CELLS
11-7-96	C96-9803 2	RIGHT BREAST WASH	20	56	NON-DIAGNOSTIC.
11-12-9	6 C96-9891	FNA LT BREAST FLUID	10	57	NEGATIVE FOR MALIGNANT CELLS
11-14-9	6 C96-10050 2	FNA RT BREAST WASH	20	57	POSITIVE FOR MALIGNANT CELLS
11-19-9	6 C96-10189	FNA RT BREAST FLUID	17	58	-RARE SMALL CLUSTERS OF APOCRINE-TYPE CELLS
11-25-9	6 C96-10336 2	FINE NEEDLE	1	59	GROUPS OF CYTOLOGICALLY BLAND DUCTAL
11-25-9	6 C96-10340 2	FNA; LEFT BREAST	10	59	CELLULAR SMEAR COMPOSED OF MARKEDLY
11-26-9	6 C96-10427 2	FNA RT BREAST WASH	1	59	MODERATELY ATYPICAL EPITHELIAL CELLS (SEE
12-9-96	C96-10769 2	BREAST FNA-FINE	20	63	NON-DIAGNOSTIC DUE TO INSUFFICIENT
12-17-9	6 C96-11045	FNA RT BREAST FLUID	10	64	NEGATIVE FOR MALIGNANT CELLS
12-17-9	6 C96-11059 2	FNA RT BREAST WASH	20	64	SEVERELY ATYPICAL CELLS (SEE NOTE)
12-18-9	96 C96-11108 2	FNA RT BREAST WASH	10	64	: This patient shows clusters of atypical ductal cells
12-26-9	96 C96-11350	FNA LT BREAST FLUID	15	65	NEGATIVE FOR MALIGNANT CELLS
1-7-97	C97-91	FNA RT BREAST FLUID	20	65	CYSTIC FEATURES AND DUCTAL CELLS EXHIBITING
1-9-97	C97-278	FNA RT BREAST FLUID	15	66	TOO FEW CELLS PRESENT FOR ADEQUATE
1-13-97	7 C97-468	FNA LT BREAST FLUID	17	66	NEGATIVE FOR MALIGNANT CELLS
1-13-97	7 C97-475 2	FNA LT BREAST WASH	15	66	CELLULAR SMEARS SHOW NUMEROUS
1-22-97	7 C97-968 2	FNA RT BREAST WASH	20	70	DEGENERATED CELLULAR DEBRIS AND RARE
1-22-97	7 C97-969 2	FNA LT BREAST WASH	15	70	NEGATIVE FOR MALIGNANT CELLS.
1-22-97	7 C97-970 2	FNA LT BREAST WASH	10	70	POSITIVE FOR MALIGNANT CELLS CONSISTENT
1-23-97	7 C97-1076	FNA RT BREAST FLUID	20	70	NEGATIVE FOR MALIGNANT CELLS.
1-23-97	7 C97-1076	FNA RT BREAST FLUID	20	70	NEGATIVE FOR MALIGNANT CELLS.
1-24-97	7 C97-1171	FNA BREAST	10	70	CLUSTERS OF EPITHELIAL CELLS ARE PRESENT IN A
2-13-97	7 C97-2203 2	FNA RT BREAST WASH	17	75	NEGATIVE FOR MALIGNANT CELLS
3-13-97	7 C97-3685 2	BREAST FNA-FINE	3	79	NON DIAGNOSTIC DUE TO INSUFFICENT

Report Period: to 6/30/98

Cytology Tissue Bank Breast related specimens

Date Frozen	Accession # & part #	Tissue type	Cytology Volume	Cytology Box #	Diagnosis
5-5-97	C97-6454 2	FNA LT BREAST WASH	20	79	NEGATIVE FOR MALIGNANT CELLS
5-8-97	C97-6643	FNA LT BREAST FLUID	15	79	NEGATIVE FOR MALIGNANT CELLS
5-13-97	C97-6954 2	FNA LT BREAST WASH	2	79	NON-DIAGNOSTIC
5-19-97	C97-7349 2	FNA RT BREAST WASH	3	79	CELLULAR CLUSTERS OF DUCTAL EPITHELIAL CELLS
5-22-97	C97-7627 2	FNA LT BREAST WASH	10	79	POSITIVE FOR MALIGNANT CELLS
5-22-97	C97-7629 2	FNA RT BREAST WASH	3	81	NEGATIVE FOR MALIGNANT CELLS
6-4-97	C97-8141 2	FNA LT BREAST WASH	2	81	NEGATIVE FOR MALIGNANT CELLS
6-10-97	C97-8492 2	FNA LT BREAST WASH	2	81	FIBROADIPOSE TISSUE ONLY
6-10-97	C97-8553 2	FNA RT BREAST WASH	20	81	CYSTIC CONTENTS AND SCATTERED ATYPICAL
6-13-97	C97-8837 2	FNA RT BREAST WASH	2	81	HIGH CELLULARITY
6-16-97	C97-8853 2	FNA LT BREAST WASH	2	81	ABUNDANT BENIGN DUCTAL EPITHELIUM
6-19-97	C97-9183 2	FNA LT BREAST WASH	15	81	CLUSTERS OF POORLY PRESERVED DUCTAL CELLS
6-20-97	C97-9271 2	FNA LT BREAST WASH	10	81	POSITIVE FOR MALIGNANT CELLS
10-10-97	C97-16736 2	BREAST; MIDDLE	10	88	NON-DIAGNOSTIC DUE TO INSUFFICIENT
10-14-97	C97-16972 2	LT BREAST; FNA	3	88	NEGATIVE FOR MALIGNANT CELLS.
10-30-97	C97-19025 2	FNA LT BREAST WASH	15	88	AGGREGATES OF ATYPICAL DUCTAL CELLS WHICH
11-6-97	C97-19962 2	FNA RT BREAST 11:00	15	91	ACELLULAR SPECIMEN.
11-11-97	C97-20560 2	FNA LT BREAST WASH	20	91	NON-DIAGNOSTIC DUE TO INSUFFICIENT
11-18-97	C97-21876 2	FNA RT BREAST WASH	15	91	NEGATIVE FOR MALIGNANT CELLS.
12-19-97	C97-27153 2	FNA RT BREAST WASH	3	91	NEGATIVE FOR MALIGNANT CELLS.
12-22-97	C97-27368 2	BREAST FNA WASH	3	91	NEGATIVE FOR MALIGNANT CELLS
1-2-98	C98-51 2	LEFT BREAST FNA	3	92	ADIPOSE TISSUE AND FEW GROUPS OF
1-5-98	C98-211 2	FNA RT BREAST	3	92	ADIPOSE TISSUE ONLY.
1-20-98	C98-3104 2	FNA LT BREAST WASH	2	92	CELLULAR FRAGMENTS OF EPITHELIOID CELLS
2-2-98	C98-5184 2	FNA LT BREAST WASH	20	92	NO EVIDENCE OF MALIGNANCY IN SPECIMEN
2-9-98	C98-6298	FNA RT BREAST FLUID	20	93	FAVOR PAPILLARY LESION (SEE NOTE).
3-4-98	C98-10275 2	FNA RT BREAST WASH	1 3	93	NEGATIVE FOR MALIGNANT CELLS.
4-7-98	C98-16114 2	FNA RT BREAST WASH	5	93	POSITIVE FOR MALIGNANT CELLS.
4-9-98	C98-16746 2	FNA LT BREAST WASH	1 5	94	-COHESIVE CLUSTERS OF BENIGN-APPEARING
4-9-98	C98-16747 2	FNA RT BREAST	15	94	NEGATIVE FOR MALIGNANT CELLS.
4-27-98	C98-19439 2	FNA RT BREAST WASH	1 20	94	

Report Period: to 6/30/98

Cytology Tissue Bank

Breast related specimens

Date Accession # Tissue Cytology Cytology
Frozen & part # type Volume Box # Diagnosis

5-4-98 C98-20770 2 FNA LT BREAST WASH 3 94 NEGATIVE FOR MALIGNANT CELLS.

Report Period: to 6/30/98

Totals:

187 Cases available

Appendix 4: Breast cases distributed from frozen samples

Samples distributed from tissue bank) Normal	Cases 2 Whole Tube Sect 1 1 1 1 1 1 1 1 1	Prograi	Program for Critical Technolog	tical Tec	shnok		Fissue) Dist	tribution R	les Tissue Distribution Report "TB"		sport Per	Report Period: 7/97 - 6/98	- 6/98
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S97-18053 9/997 1 1 1 Cases 2 Whole Tube Sect 1 1 1 Cases 2 Whole Tube Sect 1 1 1 Cases 2 Whole Tube Sect 1 1 S95-1472 10/15/97 1 S95-1472 10/15/97 1 S96-171 10/15/97 1 S96-1778 10/15/97 1 S96-179 10/15/97 1 S96-170 1	1 Cases	issue Type		Acc	ession #	Dist. Date	Normal	Tumor	Whole Tube Sect.	- 1	Normal	Tumor	Normal	Tumor
Cases 2 Whole Tube Sect 1 1 S95-14172 10/15/97 1 S95-14565 10/15/97 1 S95-16562 10/15/97 1 S96-1771 10/15/97 1 S96-17376 10/15/97 1 S96-1327 10/15/97 1 S96-14227 10/15/97 1 S96-14244 10/15/97 1 S96-1434 10/15/97 1 S96-1529 10/15/97 1 S96-13317 10	Cases 2 Whole Tube Sect 1 1	CROTTY, PAU	ı											
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Cases 2 Whole Tube Sect 1 1 A97-196 10/15/97 1 S95-14172 10/15/97 1 S95-15465 10/15/97 1 S96-1771 10/15/97 1 S96-1771 10/15/97 1 S96-5709 10/15/97 1 S96-5709 10/15/97 1 S96-5709 10/15/97 1 S96-5709 10/15/97 1 S96-1227 10/15/97 1 S96-11227 10/15/97 1 S96-11227 10/15/97 1 S96-11259 10/15/97 1 S9	Cases 2 Whole Tube Sect 1 1 A97-196 10/15/97 1 1 1 S95-14172 10/15/97 1 1 1 S95-14465 10/15/97 1 1 1 S96-1771 10/15/97 1 1 1 S96-5078 10/15/97 1 1 1 S96-5078 10/15/97 1 1 1 S96-5078 10/15/97 1 1 1 S96-1127 10/15/97 1 1 1 S96-1127 10/15/97 1 1 1 S96-11434 10/15/97 1 1 1 S96-11434 10/15/97 1 1 1 S96-13317 10/15/97 1 1 1 S96-13317 10/15/97 1 1 1 S96-13317 10/15/97 1 1 3 Cases 15 Whole Tube Sect<	Breast	1 Cases	2 Whole	Tube	Sect	1	-						
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15 Whole Tube Sect 12	15 Whole Tube Sect 12 3 S97-7787 7/9/97 base developed for the Program for Cfritical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine	Breast	15 Cases	15 Whole	Tube	Sect			12	3				
S97-7787	S97-7787 7/9/97 base developed for the Program for Cfitical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine	Total for PI	15 Cases	15 Whole	Tube	Sect			12					
787-78S	S97-7787 7/9/97 Database developed for the Program for Cfitical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine	HANDSCHUM	ACHER, ROBERT											
	Database developed for the Program for Cfitical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine	Breast		S	97-7787	7/9/97				-				Ţ,
	Database developed for the Program for Cfritical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine						1							

Program for Critical Technology	for Crit	ical Tech	nok	gies 1	Fissue	_	Distribution Report "	eport "TB"		port Per	Report Period: 7/97	- 6/98
(Samples distributed from tissue bank)	ited from tiss	ue bank)			Non-	Non-	OCT Normal	OCT Tumor	FS	FS		
Tissue Type		Acces	Accession #	Dist. Date	frozen	frozen Tumor	Whole Tube Sect.	Whole Tube Sect.	Slide	Slide	Snap	Snap
Breast	1 Cases	1 Whole	Tube	Sect				1				
Total for PI	1 Cases	1 Whole	Tube	Sect				1				
HOCHBERG, RICHARD	ARD									100		
Breast		S97.	S97-7731	7/1/97						8		
Breast		S97.	897-7733	7/2/97						œ		
Breast		S97.	897-13661	19/97						ω		
Breast		S97.	S97-14012	7/14/97						œ		
Breast	slides	S97.	S97-14061	7/15/97						œ		
Breast		S97.	S97-14149	7/15/97						œ		
Breast	slides	S97.	S97-16601	8/19/97						ω		
Breast		287	S97-16744	8/20/97						ω		
Breast		287	S97-17031	8/25/97						ω		
Breast		287	S97-17041	8/25/97						œ		
Breast		287	S97-17313	8/28/97						œ		
Breast		287	S97-18774	9/18/97						œ		
Breast		282	S97-19109	9/23/97						œ		
Breast		287	S97-19141	9/23/97						ω		
Breast		282	S97-19222	9/24/97						œ		
Breast		282	S97-19412	9/26/97						ω		
Breast		287	S97-19666	9/30/97						ω		
Breast		285	\$97-20120	10/6/97						80		
Breast		285	S97-21418	10/22/97						œ		
Breast		282	S97-24608	12/3/97						ω		
Breast		268	S97-24608	12/3/97						ω		
Breast		268	S97-24977	12/9/97						ω		
Breast		282	S97-24991	12/9/97					-	∞		
Print Date: 7/17/98		ase developed fo	r the Pro	ogram for C	ritical Tech	nologies	Database developed for the Program for Critical Technologies in Molecular Medicine by C.	ine by C. L. Howe &	B. R. Levine	ne © 1997	26	

Non-	Progre	am for Crit	Program for Critical Technolog		issue	Dist	ribution R	ies Tissue Distribution Report "TB"		port Per	Report Period: 7/97 - 6/98	86/9 -
Picaset Pica	(Samples di	stributed from tise	sue bank)		Non-	Non-	OCT Normal	OCT Tumor	FS	FS	Snan	Span
Breast S97-25291 12 Breast S97-25291 11 Breast S97-25311 11 Breast S97-25311 11 Breast S97-25311 11 Breast S97-2537 12 Breast S97-25937 12 Breast S97-25937 12 Breast S97-25937 12 Breast S97-26159 12 Breast S98-1713 Breast S98-1713 Breast S98-3703 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-5370 3 Breast S98-7472 S98-7473 Breast S98-7472 S98-7473 Breast S98-7472 S98-7473 Breast A7 Cases O Whole Tub	Tissue Type	٠.		ist. Date	Normai	Tumor	Whole Tube Sect.	Whole Tube Sect.	Normal	Tumor	Normal	Tumor
Breast S97-25291 1 Breast S97-25311 12 Breast S97-25311 12 Breast S97-25311 12 Breast S97-2590 1 Breast S97-25937 1 Breast S97-25937 1 Breast S97-25937 1 Breast S98-184 1 Breast S98-1713 Breast S98-184 1 Breast S98-3022 2 Breast S98-3022 2 Breast S98-302 2 Breast S98-3703 2 Breast S98-3703 2 Breast S98-3703 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-5141 3 Breast S98-5141 3 Breast S98-7472 3 Breast S98-7773 3 Breast S98-7	Breast			2/11/97						ω		
S97-25311 12 S97-25311 11 S97-25311 11 S97-25790 12 S97-25790 11 S97-25937 12 S97-25937 12 S97-25937 12 S97-25937 12 S97-26159 12 S98-184 1 S98-3703 2 S98-3703 3 S98-7743 47 Cases 0 Whole Tube 37	Breast		S97-25291	1/14/98						80		
Breast Mass S97-25311 1. Breast S97-25790 12. Breast S97-25790 1. Breast S97-25937 1. Breast S97-25937 1. Breast S97-25937 1. Breast S97-26159 12. Breast S98-184 1. Breast S98-1713 Breast S98-3703 2. Breast S98-3703 3. Breast S98-5370 3. Breast S98-7743 Breast S98-7743 Breast Tube 37 Breast Tube 37	Breast		_	2/11/97						œ		
Breast S97-25790 12 Breast S97-25790 1 Breast S97-25937 12 Breast S97-25937 1 Breast S97-26159 12 Breast S98-184 1 Breast S98-1713 Breast S98-3703 2 Breast S98-5141 Breast S98-5141 Breast S98-5141 Breast S98-5741 Breast S98-7752 Breast S98-7773	Breast	mass	S97-25311	1/14/98						80		
Breast S97-25790 1 Breast S97-25937 12 Breast S97-25937 1 Breast S97-26159 12 Breast S98-184 1 1 Breast S98-1713 2 Breast S98-3703 2 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-777 3 Breast S98-7773 3 Breast S98-7773 3 Breast Tube 37 Breast Tube 37	Breast		S97-25790 1	2/17/97						∞		
Breast S97-25937 12 Breast S97-25937 12 Breast S97-26159 12 Breast S98-184 1 Breast S98-1713 2 Breast S98-3703 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-7761 3 Breast S98-7773 3 Breast S98-7773 3 Breast S98-7773 3 Breast Tube 37 Total for PI 47 Cases 0 Whole Tube 37	Breast			1/14/98						œ		
Breast S97-25937 1 Breast S97-26159 12 12 Breast S98-184 1 Breast S98-184 1 Breast S98-1713 2 Breast S98-3022 2 Breast S98-3703 2 Breast S98-3900 2 Breast S98-4027 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-5370 3 Breast S98-7061 3 Breast S98-7743 3 Breast Tube 37 Total for Pi 47 Cases 0 Whole Tube 37	Breast			2/18/97						œ		
Breast S97-26159 12 Breast S97-26159 12 Breast S98-184 1 Breast S98-3703 2 Breast S98-3703 2 Breast S98-3703 2 Breast S98-3703 2 Breast S98-4027 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-5141 2 Breast S98-7741 2 Breast S98-7773 3 Breast S98-7743 3 Breast Tube 37 Breast Tube 37	Breast		S97-25937							œ		
Breast S98-184 1 Breast S98-184 1 Breast S98-1713 2 Breast S98-3702 2 Breast S98-3703 3 Breast S98-5141 3 Breast S98-5141 3 Breast S98-5370 3 Breast S98-7741 3 Breast S98-7773 3 Breast S98-7773 3 Breast Tube 37 Total for Pi 47 Cases 0 Whole Tube 37			S97-26159 1	2/22/97						∞		
Breast \$98-184 1 Breast \$98-1713 2 Breast \$98-3022 2 Breast \$98-3703 2 Breast \$98-3703 2 Breast \$98-4027 2 Breast \$98-4481 2 Breast \$98-5141 3 Breast \$98-5370 3 Breast \$98-7741 3 Breast \$98-7742 3 Breast \$98-7743 3 Breast \$98-7742 3		mass	S97-26159 1	2/22/97						∞		
Breast \$98-1713 Breast \$98-3022 2 Breast \$98-3703 2 Breast \$98-3703 2 Breast \$98-3900 2 Breast \$98-4027 2 Breast \$98-5141 2 Breast \$98-5141 2 Breast \$98-5141 3 Breast \$98-7741 3 Breast \$98-7742 3 Breast \$98-7743 3			S98-184	1/14/98						œ		
Breast \$98-3022 2 Breast \$98-3703 2 Breast \$98-3703 2 Breast \$98-300 2 Breast \$98-4027 2 Breast \$98-4481 2 Breast \$98-5141 3 Breast \$98-5370 3 Breast \$98-7741 3 Breast \$98-7742 3 Breast \$98-7743 3 Breast \$0 Whole Tube 37 Total for Pi 47 Cases 0 Whole Tube 37			S98-1713	2/6/98						œ		
Breast \$98-3703 2 Breast \$98-3703 2 Breast \$98-3900 2 Breast \$98-4027 2 Breast \$98-5141 3 Breast \$98-5370 3 Breast \$98-7061 3 Breast \$98-7755 Breast \$98-7472 Breast \$98-7743 Breast \$98-7743 Total for Pi 47 Cases 0 Whole Tube 37				2/10/98						ω		
Breast S98-3703 2 Breast S98-3900 2 Breast S98-4027 2 Breast S98-5141 2 Breast S98-5141 3 Breast S98-5370 3 Breast S98-7061 3 Breast S98-7742 3 Breast S98-7743 3 Breast Tube 37 Total for Pi 47 Cases 0 Whole Tube 37				2/18/98						œ		
Breast \$98-3900 2 Breast \$98-4027 2 Breast \$98-4481 2 Breast \$98-5141 3 Breast \$98-5370 3 Breast \$98-7061 3 Breast \$98-7742 3 Breast \$1 Cases \$0 Whole Tube 37 Total for Pi 47 Cases \$0 Whole Tube 37				2/18/98						œ		
S98-4027 2 S98-4481 2 S98-5141 S98-5370 3 S98-5370 3 S98-7761 S98-7742 S98-7743 47 Cases 0 Whole Tube 37				2/20/98						œ	.,,	
S98-4481 2 S98-5141 S98-5370 3 S98-7061 S98-7725 S98-7742 S98-7743 47 Cases 0 Whole Tube 37	Breast			2/23/98						œ		
Mass S98-5141 S98-5370 3 S98-7061 S98-7761 S98-7472 S98-7743 47 Cases 0 Whole Tube 37	Breast			2/27/98						æ		
\$98-5370 3 \$98-7061 \$98-7325 \$98-7472 \$98-7743 47 Cases 0 Whole Tube 37	Breast	mass	S98-5141	3/9/98						ω		
\$98-7061 \$98-7325 \$98-7472 \$98-7743 47 Cases 0 Whole Tube 37	Breast		S98-5370	3/18/98						œ		
S98-7325 S98-7472 S98-7743 47 Cases 0 Whole Tube 37 47 Cases 0 Whole Tube 37	Breast		S98-7061	4/6/98						80		
\$98-7472 \$98-7743 47 Cases 0 Whole Tube 37 47 Cases 0 Whole Tube 37	Breast		S98-7325	4/6/98						ω		
S98-7743 47 Cases 0 Whole Tube 37 47 Cases 0 Whole Tube 37	Breast		S98-7472	4/7/98						∞		
47 Cases 0 Whole Tube 37 47 Cases 0 Whole Tube 37	Breast		S98-7743	4/9/98						8		
47 Cases 0 Whole Tube 37	Breast	47 Cases	Tube	76 Sect						376		
	Total for Di		Tithe	76 Sect				and an analysis of the state of		376		

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Prog	ram for Crit	Program for Critical Technologies Tissue Distribution Report "TB"	gies T	issue	Dist	ribution R	eport "TB"	Rep	oort Per	Report Period: 7/97 - 6/98	- 6/98
(Sample	(Samples distributed from tissue bank)	sue bank)		Non-	Non-	OCT Normal	OCT Tumor	FS	FS	S	S
Tissue Type	/pe	Accession #	Dist. Date	Normal	Tumor	Whole Tube Sect.	Whole Tube Sect.	_	Tumor	Normal	Tumor
Hul, Pel											
Breast		S98-1141	1/16/98							-	_
Breast		S98-1176	1/16/98							_	-
Breast		S98-1324	1/19/98								_
Breast		S98-1362	1/20/98								_
Breast		S98-1446	1/20/98							-	~
Breast		S98-1640	1/22/98							-	-
Breast	6 Cases	11 Whole Tube	Sect							5	9
Add Yor PI	Pl 6 Cases	11 Whole Tube	Sect							2	9
endi:	Kacinski, Barry										
b Breast		S97-16373	8	_	-						
		S97-24087	11/25/97	_	-						
		S97-24541	12/2/97	-							
		S97-24608		-	-						
Breast		S97-24975			_						
Breast		S97-25057	12/9/97	-	-						
Breast		S97-25311	12/11/97	-	-						
Breast		S98-1362	1/20/98		~						
Breast		S98-1640	1/22/98		-						
Breast		S98-3475	2/16/98	-	-						
Breast	10 Cases	17 Whole Tube	Sect	7	10						
Total for PI	Pi 10 Cases	17 Whole Tube	Sect	2	10					and the state of t	
KUCHEF	KUCHERLAPATI, MIMI										
Breast	100000000000000000000000000000000000000	S96-167	8/27/97				-				
Print Da	Print Date: 7/17/98 Datab	Database developed for the Program for Citical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine	ogram for C	itical Tech	nologies	in Molecular Medic	ine by C. L. Howe &	B. R. Levir	le © 1997	97	

Total for PI 3 Cases Total for PI 3 Cases Pizzorno, Guiseppe Breast	Samples distributed from ussue bank) Pissue Type	t. Date 27/97 27/97 27/97 3 Sect 3 Sect 1/8/98 Sect Sect Sect 5/7/97 1/1/97 1/1/97 1/1/97 1/1/97 1/1/97 1/1/97 1/1/97 1/1/97	frozen frozen Normal Tumor 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Whole Tube Sect.	OCT Tumor Whole Tube Sect. 3 3 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Slide Slide Normal Tumor	Suap or Normal	Snap Tumor 1
Breast Breast	S96-10541 12/7/97 S96-10541 12/7/97	11/11/97						

	Program for Critical Technologies Tissue Distribution Report "TB"	echnologies 7	Fissue	Dis	tribution R	eport "TB"	A.	port Per	Report Period: 7/97 - 6/98	- 6/98
	(Samples distributed from tissue bank)		Non-	Non-	OCT Normal	OCT Tumor	ន	र	i i	
-	Tissue Type	Accession # Dist. Date	trozen Normal	trozen Tumor		Whole Tube Sect. Whole Tube Sect.	Slide Normal	Slide	Snap Normal	Snap Tumor
	Breast	S96-10630 11/11/97				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	Breast	S96-10630 12/7/97				1 11				
	Breast	S96-10704 11/11/97				1 11				
	Breast	S96-10704 12/7/97				1 11				
	Breast	S96-11631 11/11/97				1-				
	Breast	S96-11631 12/7/97				1 11				
	Breast	S96-11690 11/11/97				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
	Breast	S96-11690 12/7/97				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
A	Breast	S98-7921 4/14/98	2	2					,	
.pp	Breast	S98-8467 4/21/98	2	2					•	

Breast			S98-8467	4/21/98	2	2		•
Breast	22 Cases	22 Cases 14 Whole	20 Tube	20 Tube 220 Sect	4	10	20 220	
Total for Pl	22 Cases 14 Whole 20 Tube 220 Sect	14 Whole	20 Tube	220 Sect	4	10	20 220	
Do								
Grand Total	109 Cases	66 Whi	23 Tube	599 Sect	14	24	12 4 23 223 37	376 5 7
56								

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Appendix 5: Frozen breast tissue available

	1														
Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	DNA Normal	DNA Tumor
2/12/93	* S93-2570	Breast		_	_				0	0					
2/15/93	S93-2661	breast		_	->	_			_	->					
2/17/93	S93-2790	Breast		_	_	_				_					
2/17/93	S93-2804	breast		_	_				<u> </u>	0					
2/19/93	S93-2959	breast		_	_	_				_					: 5
3/5/93	S93-3831	Breast			-	>			_	<u> </u>					ndix
3/8/93	S93-3935	breast		_	_	_			_						pen
3/12/93	S93-4279	Breast							<u> </u>	_					Аp
3/18/93	S93-4675	Breast		_		<u> </u>			_						
3/22/93	S93-4776	Breast								_					
3/25/93	S93-5036	breast		_		<u>.</u>			_	_					
3/26/93	S93-5105	breast		<u></u>	_	<u> </u>			_	_					
4倍/93	* S93-5700	breast		_					_	_					8
4/8/93	S93-5860	breast			->	<u>~</u>									ge 5
4/2/93	* S93-6026	breast		_	_	_			->	_					Pag
4/6/93	S93-6323	breast													(
4/201/93	S93-6575	breast		-	ω	4			2	4					Э.
4/29/93	S93-7087	breast				_									M.I
5/00/93	S93-7718	breast				_									ta l
5/25/93	S93-8598	breast				2				_					Cos
7/ g /93	S93-11023	Breast				_				_					sé (
7/94/93	S93-11600	Breast		_	_				_						Jos
7/15/93	S93-11721	Breast			>	_			2	_					ort,
7(27/93	S93-12403	Breast				_				_					rep
8/193	S93-12734	Breast				_				_					ıal ı
8/3/93	S93-12800	Breast													nnu
8/2/93	S93-12894	Breast				_				_					A
8/4/93	S93-13145	Breast							_	0					
0 7/93	S93-13630	Breast		_	4	2			ω						
08 3/93	S93-13998	Breast		_					2	->					
* Ssue	samples are ava	This samples are available for this patient from multiple cases and/or parts.	nt from multi	nle cases	and/or par	rts.									
0000	samples are ave	אוומטוכ וכו נוווס לימווכו		pro outoo	20,01					:)				

Par Date: 7/17/98 Database developed for the Program for Critical Technologies in Molecular Medicine by C. L. Howe & B. R. Levine © 1997

Tissue Available

By Tissue Type

As of: July 17, 1998

Accession Tippe & No. Tissue type Cases w/pairs Normal Tu Type & No. Tissue type Cases w/pairs Normal Tu S93-14328 Breast S93-14458 Breast S93-14458 Breast S93-14743 Breast S93-14860 Breast S93-1607 Breast S93-1660 Breast S93-1854 Breast S93-1856 Breast S93-19660 Breast S93-19660 Breast S93-19660 Breast S93-19661 Breast S93-19661 Breast S93-20068 Breast				ب				N	Ν.	_		Breast	594-2455	2/10/94
Accession Total Cases OCT Silde Silde Silde Sing Snap Paraffin) –			Didayi	* 0012-100	461117
Accession Total Cases Cases Wpairs OCT Silde Silde Silde Silde Sinap Snap Snap Paraffin P								_	_			Breast	* 594-2186	2/7/94
Paccession				တ				ω				Breast	* S94-2137	2/7/94
Accession Total Total Cases Cases Normal Tumor Silde Sinde Sinap Sinap Parattin Pa				_								Breast	* S94-1799	2/1/94
Accession Tissue type Cases Wpairs Normal Tumor Normal Tu				>								Breast	* S94-1799	2/15/94
Accession Tissue type Cases WDAIR Cases WDAIR Silde Silde Sinde Normal Tumor Normal					ω			ω	2	_		Breast	* S94-1665	1/28/94
Accession Total Total Cases Cases Whal's Normal Tumor Silde Silde Silde Silde Sinap Sinap Paraffin P				0								Breast	* S94-679	1/13/94
Accession Tissue type Cases Wpairs Normal Tumor				_								Breast	S94-439	1/10/94
Accession Tissue type Cases Wpairs Normal Tumor								_				Breast	S93-20981	12/20/93
Accession Tissue type Cases OCT Silide Silide Sinap Sinap Paraffin Paraffin<				0				_				Breast	S93-20934	12/20/93
Accession Titskue type Cases Cases Wpairs OCT VOCT VOCT VOCT Silde Sil								2		_		Breast	S93-20268	12/09/93
Accession Tiotal Cases Cases V/Pairs OCT VOIT Silde Silde Sinap Vormal Sinde Sinap Vormal Tumor Accession Normal Tumor Silde Vormal Tumor Sinap Vormal Tumor Sinap Vormal Tumor Accession Normal Tumor								_	_	_		Breast	S93-20263	12/09/93
Accession Tissue type Cases Wpairs Normal Normal Tumor Normal <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td><td>_</td><td>_</td><td></td><td>Breast</td><td>S93-20068</td><td>12/9/93</td></th<>								2	_	_		Breast	S93-20068	12/9/93
Accession Tissue type Cases (ass) OCT (ass) Silde (ass) Silde (ass) Sinap (ass) Paraffin Paraff								_				Breast	S93-19699	11/30/93
Accession Total Cases Cases Wpairs OCT Voltage No. Slide Sind Voltage Normal Tumor Snap Vormal Tumor Snap Vormal Tumor Paraffin Par								_	_	_		Breast	S93-19661	11/30/93
Accession Total Cases OCT Silde Silde Sinap Snap Paraffin P								0	_			Breast	S93-19660	11/30/93
Accession Tissue type Cases OCT OCT Silde Silde Silde Snap Snap Snap Paraffin Paraffi									_			Breast	S93-19650	11/30/93
Accession Total Cases Cases Wpairs Normal Tumor Normal Tumor Normal Tumor Slide Slide Slide Slide Snap Snap Paraffin Par								_				Breast	S93-18548	11/10/93
Accession Total Tissue type Cases Cases W/pairs OCT Vormal Tumor Slide Silde Snap Normal Tumor Paraffin Pa								2	2	_		Breast	S93-18541	11/10/93
Accession Type & No. Tissue type Cases Cases W/pairs Normal Tumor									_			Breast	S93-16676	10/11/93
Accession Total Cases OCT OCT Slide Snap Snap Paraffin Paraffin Type & No. Tissue type Cases w/pairs Normal Tumor Normal				_					>	_		Breast	S93-16650	10/11/93
Accession Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tum												Breast	S93-16331	10/5/93
Accession Total Cases OCT OCT Slide Snap Snap Paraffin Paraffin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor S93-14328 Breast 2 S93-14357 Breast 1 1 1 S93-14458 Breast 1 1 1 S93-14743 Breast 1 1 S93-14850 Breast 2 2 S93-15607 Breast 3 3 0 5				0	2			ω		_		Breast	S93-16089	9/29/93
Accession Total Cases OCT OCT Slide Snap Snap Paraffin Paraffin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Sp3-14328 Breast 2 S93-14357 Breast 1 1 1 1 S93-14458 Breast 1 1 1 1 S93-14458 Breast 1 1 1 1 S93-14850 Breast 2				Сī	0			ω				Breast	S93-15607	9/21/93
Accession Total Cases OCT OCT Slide Snap Snap Paraffin Paraffin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor S93-14328 Breast 2 S93-14357 Breast 1 8 S93-14458 Breast 1 1 1 S93-14743 Breast 1 S93-14827 Breast 1								N				Breast	S93-14850	09/08/93
Accession Total Cases OCT OCT Slide Snap Snap Paraffin Paraffin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Spands Tumor Normal Tumor Normal Tumor Normal Tumor Spands Tumor Normal T								_				Breast	S93-14827	09/07/93
Accession Total Cases OCT OCT Slide Snap Snap Paraffin Paraffin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor S93-14328 Breast 2 S93-14357 Breast 1 8 0								_				Breast	S93-14743	09/07/93
Accession Total Cases OCT OCT Slide Slide Snap Snap Paraffin Paraffin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor S93-14328 Breast 2 S93-14357 Breast 8				_	_					_		Breast	S93-14458	08/31/93
Accession Total Cases OCT OCT Slide Slide Snap Snap Paraffin Paraffin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor S93-14328 Breast 2				0				œ				Breast	S93-14357	08/30/93
Accession Total Cases OCT OCT Slide Slide Snap Snap Paraffin Paraffin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor								N				Breast	S93-14328	08/30/93
	ytology	1	Normal Normal	Snap	Snap Normal	Tumor	1	Tumor	Normal	Cases w/pairs	Cases	Tissue type	Accession Type & No.	Date Frozen

* Tissue samples are available for this patient from multiple cases and/or parts.

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Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	Normal	DNA
2/11/94	* S94-2510	Breast							_						
2/15/94	* S94-2608	Breast				_									
2/15/94	S94-2673	Breast				_				_					
2/17/94	S94-2792	Breast		_		4			N	_					
2/22/94	* S94-3094	Breast							2						: 5
2/23/94	* S94-3146	Breast		_	2	N				0					dix
3/1/94	* S94-3527	Breast			4	ω									pen
3/7/94	S94-3815	Breast				_				0					Αp
3/7/94	S94-3826	Breast							_						
3/9/94	* S94-3966	Breast		_	4	G			2	ω					
3/9/94	* S94-3972	Breast							N						
3/9/94	* S94-3989	Breast		_	ω	0			ω	2					
3/22/94	S94-4814	Breast				2							•		0
3/25/94	S94-5054	Breast		_	4	ω									ge 6
3/25/94	S94-5074	Breast		_	ΟΊ	ω				0					Pag
3/28/94	S94-5176	Breast		_	_	_]
3/28/94	* S94-5198	Breast		_	N	_) .
4/12/94	* S94-6096	Breast		_	ഗ	ω			0	0					M.E
4/12/94	S94-6154	Breast			_										ta N
4/15/94	S94-6301	Breast							œ						Cos
4/15/94	S94-6374	Breast			2										sé (
5/11/94	* S94-8130	Breast			ω										Jos
5/16/94	S94-8349	Breast				_									ort.
6/3/94	* S94-9518	Breast		_	თ	11				7					enc
6/10/94	* S94-10033	Breast		_	_	->									al r
6/14/94	S94-10172	Breast			_	->				0					กทน
6/15/94	S94-10235	Breast			4										Αı
7/6/94	* S94-11472	Breast		_	ω	N									
7/8/94	S94-11688	Breast		_	2	N									
7/15/94	* S94-12104	Breast			2										
* Tippin		on our libble for this motions from multiple	at from mult		cosos and/or narts	;									

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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4					11/1/94 *S94-	11/1/94 * S94-	10/31/94 S94-	10/18/94 *S94-	10/17/94 *S94-	10/17/94 S94-	10/13/94 S94-	10/13/94 S94-	10/10/94 S94-	10/7/94 S94-	9/21/94 * S94-	9/21/94 * \$94-	9/16/94 * \$94-	9/2/94 * \$94-	9/2/94 * \$94-	8/31/94 S94-	8/11/94 *S94-	8/9/94 S94-	8/2/94 S94-	8/1/94 S94-	7/27/94 S94-	7/26/94 S94-	7/22/94 * S94-	7/15/94 S94-	7/15/94 * S94-	Date Acc Frozen Type	
	S94-20131 B	S94-19163 B	S94-19004 B	S94-18988 B	S94-18820 B	S94-18820 B	S94-18677 B	S94-17899 B	S94-17899 B	S94-17822 B	S94-17659 B	S94-17451 B	S94-17390 BI	S94-17299 Bi	S94-16244 Bi	S94-16244 Bi	S94-15938 Bi	S94-15249 Bi	S94-15249 Bi	S94-15063 Bı	S94-13831 Bı	S94-13631 Bı	S94-13199 Bı	S94-13117 Br	S94-12912 Br	S94-12778 Br	S94-12603 Br	S94-12136 Br	S94-12126 Br	Accession Type & No. Ti	•
Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type	
																														Total Cases	
_		_	_	<u></u>					_	_					_					_		_	_	_			<u></u>		>	Cases w/pairs	
	_	2	_	2		_	2		2	ω					_	<u>~</u>				_	_		_	_	2		_	_		Normal	
		2	->	თ			ω	_	_	2	_		6	N	N		_		_	_			_	_	N	ω	_	_	_	Tumor	
																														Slide Normal	
																														Slide	
_				0			0					_										_								Snap Normal	
_				0			0					_										_								Snap	,
					4																									Parattin Normal	3
																														Parattin Tumor	3
																														Cytology	
																														Normal	2
			۸.		ر ا د	rep	a ent	To	aá (700	to N	A T	`		Pag	ra 6	1					۸n	pen	div	. 5					Tumor	

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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2							Breast	S95-7408	5/3/95
4							Breast	S95-7359	5/3/95
			_	_	_		Breast	* S95-7286	4/25/95
				_	_		Breast	* S95-7215	4/24/95
2							Breast	* S95-7192	4/28/95
			_		_		Breast	* S95-7192	4/24/95
			_	_	_		Breast	S95-6687	4/17/95
			2	2	_		Breast	S95-6664	4/17/95
	~	œ	0				Breast	* S95-6658	5/6/95
			_	_	<u></u>		Breast	* S95-6658	4/17/95
	٠٠	8	0				Breast	S95-6657	5/6/95
	UI	15	0				Breast	* S95-6445	4/13/95
				2			Breast	* S95-6445	4/12/95
_			-1	2	_		Breast	S95-6435	4/12/95
	Ji	15	0				Breast	* S95-6255	4/13/95
0 0			ω	2	_		Breast	* S95-6255	4/10/95
			2	N	_		Breast	S95-5798	4/3/95
	Ji	15	0				Breast	* S95-5668	3/31/95
			2	2	_		Breast	* S95-5668	3/31/95
	Ji	15	0				Breast	* S95-5470	3/31/95
2 3					_		Breast	* S95-5257	3/29/95
			2	N	_		Breast	* S95-5152	3/23/95
			N	2	_		Breast	S95-5073	3/22/95
	J1	15	0				Breast	* S95-4997	3/22/95
			2	N	_		Breast	* S95-4997	3/21/95
			2	ω	_		Breast	S95-4990	3/21/95
			N	N	_		Breast	S95-4961	3/20/95
			20	2	_		Breast	S95-4954	3/20/95
		14	0				Breast	* S95-4952	3/20/95
		13					Breast	* S95-4921	3/20/95
Snap Snap Paraffin Paraffin Normal Tumor Normal Tumor		Slide al Tumor	OCT Slide Tumor Normal	OCT	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available

By Tissue Type

Date	Accession		Total	Cases	OCT	2	Slide	Slide	Snap	Snap	Paraffin	Paraffin			DNA
Frozen		Tissue type	Cases	w/pairs	Normal	Tumor	Normal	Tumor	Normal	Tumor		1	Cytology Normal	Normal	Tumor
5/1/95	* S95-7583	Breast		_	2	N									
5/8/95	* S95-7583	Breast										_			
5/1/95	S95-7599	Breast		_	2	2						_			
5/1/95	* S95-7601	Breast		_	2	N						_			
5/5/95	* S95-7601	Breast										2			5
5/1/95	S95-7647	Breast		_	2	2									dix
5/17/95	* S95-8820	Breast		_	2	4									pen
5/25/95	S95-9166	Breast				0		15							Apj
5/25/95	S95-9167	Breast				0		15							
5/24/95	* S95-9272	Breast		->	_	_									
5/25/95	* S95-9272	Breast				0		15							
5/26/95	S95-9486	Breast		_	_	_									
5/31/95	* S95-9729	Breast		_	თ	15									4
6/2/95	S95-9927	Breast				2									e 6
6/12/95	S95-10463	Breast		_	_	_									Pag
6/13/95	* S95-10548	Breast		<u></u>	2	2					_	_			1
6/20/95	* S95-10548	Breast										N) .
6/14/95	* S95-10659	Breast		_	_	_					_	_			M.D
6/21/95	* S95-10659	Breast										->			ta N
6/16/95	S95-10798	Breast		_	<u></u>										Cosi
6/21/95	* S95-11124	Breast		_	_	_									sé C
6/21/95	* S95-11124	Breast				0		15							Jos
6/21/95	* S95-11125	Breast		_							2	2			ort,
7/5/95	* S95-11125	Breast		-							2	_			epo
6/23/95	S95-11240	Breast		_	_	_									al r
6/26/95	* S95-11358	Breast				N									ınu
6/26/95	* S95-11358	Breast				0		15							Αı
6/27/95	S95-11427	Breast				0		15							
6/27/95	* S95-11445	Breast		>	2	<u> </u>									
6/27/95	* S95-11445	Breast				0		15							
* Tissue	samples are ava	Tissue samples are available for this patient from multiple cases and/or parts.	ient from multi	ple cases	and/or par	ts									

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7.42	ممممنمه		Tata	2220	2	3	CHILD	Clido	Cran	Crea	Daraffin	Daraffin			
Frozen	Type & No.	Tissue type	Cases	w/pairs	Normal	"	Normal	Tumor	Normal	Tumor	Normal	Tumor	Cytology Normal	Normal	Tumor
6/28/95	S95-11610	Breast		_	2										
6/29/95	S95-11709	Breast		_					_	_					
6/30/95	* S95-11746	Breast		<u></u>	2	N									
6/27/95	* S95-11746	Breast				0		15							
6/21/95	S95-11921	Breast				0		15							5
7/6/95	S95-11962	Breast				_									ıdix
7/19/95	S95-11972	Breast				_									pen
7/10/95	* S95-12114	Breast		>	2	4			_	_	N	2			Ap
7/11/95	S95-12161	Breast		_	ω	51									
7/12/95	S95-12253	Breast			_	N									
7/18/95	S95-12627	Breast				0		15							
7/18/95	S95-12647	Breast			2	N									
7/25/95	S95-13137	Breast				7				ω					5
7/26/95	S95-13293	Breast		_	Ŋ										ge 6
8/7/95	S95-13963	Breast				ω									Pag
8/9/95	* S95-14172	Breast				0		15]
8/9/95	* S95-14172	Breast		>	ω	2) .
8/9/95	S95-14209	Breast		_	O	თ				0	_	-7			M.L
8/11/95	S95-14350	Breast		_	_	<u> </u>									ta N
8/12/95	* S95-14374	Breast		_	ω	6									Cos
8/16/95	S95-14612	Breast				4									sé C
8/30/95	* S95-15465	Breast		_	œ	4									Jos
8/30/95	* S95-15484	Breast		_	N	_									ort,
9/5/95	S95-15759	Breast		_	ω	ω						_			repo
9/6/95	S95-15789	Breast			N										ıal 1
9/6/95	* S95-15854	Breast		_	2	2									nnu
9/6/95	* S95-15854	Breast				0		15							Aı
9/8/95	S95-15965	Breast		_	2	_									
9/11/95	* S95-16148	Breast		_	_	ω									
9/18/95	* S95-16562	Breast		_	5	9				0					
* Ticcup	complex ero evo	samples are available for this patient from multiple cases and/or parts	from mult	inle cases	and/or na	5									

* Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available

By Tissue Type

זיי														
Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	DNA Cytology Normal	DNA
9/18/95	* S95-16562	Breast				0		15						
9/19/95	* S95-16716	Breast				_								
9/19/95	* S95-16716	Breast				0		15						
9/22/95	S95-16934	Breast		_	O	4			0	0				
9/22/95	S95-1693 4	Breast				0		15						5
9/26/95	S95-17122	Breast				0		15						ıdix
10/02/95	S95-17500	Breast				0		15						pen
10/11/95	* S95-17513	Breast				_								Аp
10/02/95	* S95-17513	Breast				0		15						
10/10/95	* S95-17985	Breast		_	ω	ω			0	0	_	>		
10/17/95	S95-18259	Breast										2		
10/17/95	* S95-18398	Breast		>		_								
10/18/95	* S95-18398	Breast		_							_	>		66
10/17/95	* S95-18398	Breast				0		15						ge 6
10/17/95	* S95-18398	Breast		_							->	_		Pag
10/17/95	* S95-18398	Breast]
10/17/95	S95-18434	Breast				0		15) .
10/17/95	S95-18434	Breast												M.I
10/19/95	S95-18603	Breast						15						ta I
10/27/95	S95-18603	Breast		->							2	2		Cos
10/20/95	S95-18666	Breast						15						sé (
11/7/95	* S95-19426	Breast		_							_			Jos
11/1/95	* S95-19426	Breast				0		15						ort,
11/6/95	* S95-19566	Breast		->	_	>								rep
11/3/95	S95-19577	Breast		>	_	_								ıal 1
11/6/95	* S95-19643	Breast				0		15						nnu
11/6/95	* S95-19703	Breast		_	>									A
11/6/95	* S95-19703	Breast				0		15						
11/7/95	* S95-19769	Breast				_								
11/7/95	* S95-19769	Breast				0		15						
* Tissue s	samples are ava	samples are available for this patient from multiple cases and/or parts	nt from multin	Sesen ele	and/or pa	7								

** Tissue samples are available for this patient from multiple cases and/or parts.

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issue Available

12/8/95 Frozen 11/28/95 11/28/95 11/22/95 11/21/95 11/20/95 11/17/95 11/17/95 11/15/95 11/15/95 11/14/95 11/14/95 11/14/95 11/10/95 By Tissue Type 12/11/95 12/8/95 12/12/95 12/12/95 12/12/95 12/11/95 12/11/95 Date * S95-22067 S95-22042 * S95-21114 * S95-20273 * S95-22067 * S95-22042 * S95-22012 * S95-21877 ~ S95-21877 * S95-20273 S95-20890 S95-21152 S95-20952 S95-20259 S95-20072 S95-22156 S95-20743 S95-20580 S95-20580 S95-20362 S95-20362 Type & No Accession Breast Tissue type Cases Total w/pairs Cases Normal OCT Tumor 8 Normal Slide Slide Tumor 5 5 5 5 15 5 15 5 Snap Normal Snap Tumor Paraffin Paraffin DNA
Normal Tumor Cytology Normal Tumor DNA Appendix 5 Page 67 Annual report, José Costa M.D.

1/3/96

S96-77

12/19/95 12/19/95

12/22/95

* S95-22724 * S95-22591

Breast

12/19/95 12/19/95 12/19/95 12/19/95

* S95-22574

Breast

S95-22566

Breast

* S95-2257

Breast

12/19/95

* S95-22577 * S95-22577

Breas Breast

5

5

15

S95-22583

Breast

Breast

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^{*} Tissue samples are available for this patient from multiple cases and/or parts.

2/8/96	2/5/96	2/5/96	2/5/96	2/6/96	2/1/96	1/30/96	1/30/96	1/26/96	1/26/96	1/23/96	1/23/96	1/23/96	1/23/96	1/19/96	1/23/96	1/23/96	1/17/96	1/17/96	1/17/96	1/16/96	1/17/96	1/16/96	1/16/96	1/16/96	1/10/96	1/5/96	1/6/96	1/4/96	1/3/96	Date Frozen
* S96-2531	* S96-2281	* S96-2281	* S96-2222	* S96-2200	S96-2038	* S96-1808	* S96-1808	* S96-1643	S96-1610	* S96-1340	* S96-1340	* S96-1319	* S96-1171	* S96-1171	S96-992	* S96-946	* S96-946	S96-937	* S96-900	* 896-900	* S96-872	* S96-872	* S96-800	S96-797	* S96-471	* S96-319	S96-280	* S96-167	S96-86	Accession Type & No.
Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type
																														Total Cases
_			_	_			_				_						_	_		_		_							_	Cases w/pairs
2			2				2							0			2	->		2		_					0	_	_	OCT Normal
2	_		2		0	0	2	0	0	0	_	0	0		0	0	2		0	4	0	_	0	0	0	0	_	_	_	OCT Tumor
																														Slide Normal
		10			15	15		15	15	15		15	10		15	10			10		15		10	10	38	10				Slide Tumor
																														Snap Normal
																														Snap Tumor
4	>			_													_												_	Paraffin Normal
4	_			_													_												_	Paraffin Tumor
																														Cytology Normal
																														DNA Normal
			A	nnu	ıalı	rep	ort,	Jo	sé (Cos	ta I	M.I	Э.		Pag	ge 6	58					Аp	per	ndix	ς 5					DNA

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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As of: July 17, 1998

•	•														
Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT Tumor	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	DNA Cytology Normal	DNA Normal	DNA Tumor
2/8/96	* S96-2538	Breast				0		15							
2/9/96	* S96-2595	Breast		_	<u></u>						_	_			
2/9/96	* S96-2595	Breast				0		10							
2/12/96	* S96-2704	Breast			0										
2/12/96	S96-2709	Breast			0	_									: 5
2/19/96	* S96-3130	Breast				_									ıdix
2/19/96	* S96-3130	Breast				0		10							pen
2/20/96	* S96-3131	Breast										_			Аp
2/21/96	S96-3302	Breast		_	_	_									
2/21/96	S96-3344	Breast				0		ΟΊ							
2/22/96	* S96-3414	Breast		>							_	_			
2/27/96	S96-3591	Breast		_							_	_			
2/27/96	* S96-3624	Breast		_							_	_			59
2/28/96	* S96-3765	Breast		<u> </u>		_									ge 6
2/5/96	* S96-3765	Breast				0		20							Pag
3/4/96	* S96-4093	Breast		_	_	_									
3/4/96	* S96-4093	Breast				0		15) .
3/4/96	* S96-4095	Breast			_										M.I
3/4/96	* S96-4095	Breast				0		10							ta I
3/4/96	* S96-4104	Breast			_	_									Cos
3/4/96	* S96-4104	Breast				0		15							sé (
3/7/96	* S96-4306	Breast			2	2									Jos
3/8/96	* S96-4410	Breast		-		_									ort,
3/12/96	* S96-4410	Breast				0		15							repo
3/8/96	* S96-4443	Breast		_		>									ıal 1
3/8/96	* S96-4443	Breast				0		15							nnu
3/12/96	* S96-4629	Breast		_	_	_									A
3/12/96	* S96-4629	Breast				15									
3/14/96	S96-4775	Breast		_	_	_									
3/15/96	* S96-4873	Breast			-1	0									
															-

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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Accession Tissue type Cases Monal Tumor Normal										•				!
Type & No. Tissue type Case Wapairs Wapairs Case Wapairs Wap						15		0				Breast	* S96-10630	6/17/96
Type & No. Tissue type Cases Color Color Nome Timor Nome Nome Timor Nome Timor Nome Nome Timor Nome		_						2				Breast	* S96-10630	6/10/96
Procession Cases Color								_	_	_		Breast	S96-10626	6/10/96
Type & No. Tissue type Case Wpair Case Ca						15		0				Breast		6/17/96
								_	2	_		Breast	* S96-10547	6/7/96
Tippe No. Tissue type Cases Wigner Normal Tumor Normal T						15		0				Breast	* S96-10541	6/7/96
Accession Tissue type Cases Wine in the Cases Color (Cases) (Wine) Sinde (Same) Sinde (Same) Sinde (Same) Color (Cases) Color (Cases)<		_	_	0	0			2	_	_		Breast	* S96-10541	6/7/96
Accession Tissue type Cases WINTER TOTAL Cases WINTER TUMOR Normal TUMOR Normal TUMOR Normal TUMOR Normal TUMOR Normal TUMOR Optional TUMOR Optional TUMOR Normal TUMOR			_						>			Breast	S96-10485	6/7/96
Accession Clases Clases Col. Cut. Sinde Itemor Normal Tumor Normal <td></td> <td>_</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td>Breast</td> <td>S96-10389</td> <td>6/7/96</td>		_	_							_		Breast	S96-10389	6/7/96
Accession Accession Clases Clases CLI Sinde Tumor Normal *896-8335 Breast 1 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>15</td><td></td><td>0</td><td></td><td></td><td></td><td>Breast</td><td>* S96-10337</td><td>6/5/96</td></td<>						15		0				Breast	* S96-10337	6/5/96
Accession Tissue type Cases Vol Cut Sinde Imail Tumor Normal Tumor <td></td> <td>_</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>_</td> <td></td> <td></td> <td>Breast</td> <td>* S96-10337</td> <td>6/5/96</td>		_	_					2	_			Breast	* S96-10337	6/5/96
Accession Tissue type Cases Vote Cases Col Cases Vote Cases Col Cases Vipal in Vipal i						15		0				Breast	* S96-10125	6/17/96
Accession Tissue type Cases Mpairs Moral Type & Mormal Type Subject Subject Control Cases Mpairs Mormal Type Mormal Type Subject Subject Control Type & Mormal Type Subject Subject Control Subject Normal Type & Mormal Type Paramin Type & Mormal Type Normal Type Normal Type & Mormal Type Normal Type N								_	_	_		Breast	* S96-10125	6/3/96
Accession Ioral Type & No. Clases Ioral Type & Normal Typ				0	0			2	N	_		Breast	S96-10119	6/3/96
Accession Tissue type Cases of Local Ca						15		0				Breast	* S96-9882	6/17/96
Accession Tissue type Cases of Cases wighling						15		0				Breast	S96-9588	5/14/96
Accession Tissue type Cases VOI Suide Silde		_	_							-		Breast	* S96-9568	5/24/96
Accession Tissue type Cases Wpairs Normal Tumor Cytology Normal S96-8236 Breast 1 1 2 1		_							2	_		Breast	S96-9425	5/22/96
Accession Ioral Tissue type Cases Vapairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal Tumor Normal Tumor Cytology Normal In Type & No. Tissue type Cases Wapairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Cytology Normal Draw Normal Tumor Normal Tumor Normal Tumor Cytology Normal S96-8236 Breast 1								N	<u></u>	_		Breast	* S96-9385	5/21/96
Accession Tissue type Cases W/pairs Normal Tumor		_	_					_		_		Breast	S96-9247	5/20/96
Accession Tissue type Cases OCI Side Snap Snap Parattin Parattin <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>_</td> <td>_</td> <td></td> <td>Breast</td> <td>S96-9194</td> <td>5/17/96</td>		_						_	_	_		Breast	S96-9194	5/17/96
Type & No. Tissue type Cases Wpairs Normal Tumor Cytology Normal Normal Tumor Normal Tumor Cytology Normal Tumor Normal Tumor Cytology Normal Tumor Cytology Normal Tumor Cytology Normal Tumor Normal Tumor Normal Tumor Cytology Normal Tumor Cytology Normal Tumor Normal Tumor Normal Tumor Cytology Normal Tumor Cytology Normal Tumor Normal Tumor Normal Tumor Cytology Normal Cytology Cy								_	0			Breast	* S96-9109	5/16/96
Accession Iotal Cases OCI OCI Slide Shap Sha			2									Breast	S96-8966	5/16/96
Accession Iotal Cases OCI OCI Silide Shap Shap Paramin Paramin Paramin						15		0				Breast	* S96-8852	5/14/96
Accession Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Cytology Normal S96-8236 Breast *S96-8335 Breast *S96-8335 Breast *S96-8393 Breast								_	_	-7		Breast	* S96-8852	5/14/96
Accession lotal Cases OCI OCI Silde Silde Shap Shap Faramin Fa						15		0				Breast	* S96-8393	5/7/96
Accession lotal Cases OCI OCI Slide Sinde Snap Snap Farattin Farattin Farattin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Cytology Normal S96-8236 Breast 1 1 1 *S96-8335 Breast 1 2 1 *S96-8335 Breast 1 2 1								_	_	_		Breast	* S96-8393	5/7/96
Accession lotal cases OCI Silde Silde Shap Shap Paramin Paramin Paramin 1 Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Cytology Normal S96-8236 Breast 1 1 1 1 *S96-8335 Breast 1 2 1						15		0				Breast	* S96-8335	5/7/96
Accession lotal cases OCI OCI Slide Slide Snap Snap Parattin Parat		_						_	2	_		Breast		5/7/96
Accession lotal Cases OCI OCI Slide Slide Snap Snap Paramin Paramin Paramin Type & No. Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Normal Tumor Cytology Normal								_	<u> </u>			Breast	S96-8236	5/6/96
	1	-		Tumor	Normal	Tumor	1	Tumor	Normal	w/pairs	Cases	Tissue type	Accession Type & No.	Date Frozen

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By Tissue Type Tissue Available

6/25/96 6/26/96 6/25/96 6/25/96 6/25/96 6/25/96 6/25/96 6/21/96 6/19/96 6/28/96 6/19/96 6/17/96 6/17/96 6/17/96 6/12/96 6/11/96 7/22/96 7/1/96 6/19/96 6/19/96 6/18/96 6/14/96 6/12/96 7/18/96 6/24/96 7/23/96 7/19/96 7/19/96 7/17/96 7/11/96 Frozen Date * S96-11434 * S96-11250 * S96-11227 * S96-10950 * S96-1082 * S96-10799 * S96-13200 * S96-12813 * S96-11631 * S96-10950 * S96-10821 S96-12529 S96-13116 S96-11690 S96-11690 S96-11631 S96-11583 S96-11583 S96-11566 S96-11227 S96-1197 S96-11620 S96-11244 S96-11204 S96-11174 S96-10954 S96-10704 S96-13104 S96-13032 S96-13317 Type & No. Accession Breast Breas Breas Breast Breast Breast Breast Breast Breast Tissue type Breas breast Cases Total w/pairs Cases Normal S N N umor S Slide Normal Slide Tumor 귱 죵 5 15 5 15 걍 5 15 15 Snap Normal 0 0 Tumor Snap 0 0 0 Paraffin Paraffin Normal Tumor N 2 Cytology Normal Tumor DNA Appendix 5 Page 72 Annual report, José Costa M.D.

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	9/13/96 *	9/12/96 *	9/12/96 *	9/10/96 *	9/10/96	9/6/96	9/6/96 *	9/6/96 *	9/4/96	9/3/96	9/3/96	9/3/96 *	8/30/96	8/26/96	8/26/96	8/22/96	8/21/96	8/20/96	8/19/96	8/15/96	8/14/96	8/13/96	8/13/96 *	8/14/96 *	8/6/96	8/2/96 *	8/2/96	7/29/96	7/26/96	Frozen
S96-16903	S96-16829	S96-16688	S96-16688	S96-16568	S96-16496	S96-16339	S96-16318	S96-16318	S96-16112	S96-16033	S96-16028	S96-16022	S96-15924	S96-15790	S96-15640	S96-15429	S96-15409	S96-15209	S96-15151	S96-14933	S96-14845	S96-14740	S96-14677	S96-14677	S96-14235	S96-13994	S96-13819	S96-13696	S96-13599	Type & No.
Breast	Tissue type																													
																														Cases
	_		_		-			_	_		_		_	_				_		_	_			>				>		w/pairs
	2				2	_		_	_		-3		_	_				_		N	N								_	Normal
	N					_		_		2	_		_		>		_	_		2	N						->		_	Tumor
																														Normal
		15					23					10				30			15			15	15		15	15				Tumor
_			_																	0								_		Normal
_			_																									_		Tumor
				_									_	_							_			->					_	Normal
				<u> </u>										_							-7			_					>	Tumor
																														Cytology
																														Normal
																														Tumor

10/25/96	10/23/96	10/23/96	10/22/96	10/22/96	10/22/96	10/22/96	10/21/96	10/21/96	10/18/96	10/14/96	10/11/96	10/11/96	10/11/96	10/4/96	10/1/96	10/1/96	9/30/96	9/27/96	9/24/96	9/24/96	9/24/96	9/24/96	9/23/96	9/20/96	9/20/96	9/18/96	9/17/96	9/16/96	9/16/96	Date Frozen
* S96-19724	* S96-19542	* S96-19542	* S96-19436	* S96-19436	* S96-19428	S96-19386	* S96-19355	* S96-19355	S96-19220	S96-18828	* S96-18669	* S96-18669	* S96-18604	S96-18242	S96-17934	S96-17930	S96-17850	S96-17780	* S96-17549	* S96-17549	* S96-17549	* S96-17478	S96-17383	S96-17314	S96-17260	* S96-17111	S96-17024	* S96-16915	* S96-16915	Accession Type & No.
Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type
																														Total Cases
_		_						_				_	_	<u> </u>	_	_					_		_	_			_		_	Cases w/pairs
_												_				_					ယ		2						_	OCT Normal
_			_					_		_		_			ω	_	2		<u> </u>		N		_		N				_	OCT Tumor
																														Slide Normal
	15	20		15	15	15	15		15		15									15		15				15		15		Slide Tumor
		12																						_			_			Snap Normal
		1																						_			_			Snap Tumor
		2											_	_	_															Paraffin Normal
		2											_	2	_															Paraffin Tumor
																														DNA Cytology Normal
																														DNA Normal
			A	nnu	al 1	repe	ort,	Jos	sé (Cos	ta N	M.E) .]	Pag	ge 7	4					Аp	pen	ıdix	5					DNA

* Tissue samples are available for this patient from multiple cases and/or parts.

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76/01/1	1/8/97	1/8/97	1/6/97	1/3/97	12/27/96	12/18/96	12/9/96	12/9/96	12/13/96	11/27/96	11/26/96	11/22/96	11/22/96	11/22/96	11/22/96	11/22/96	11/20/96	11/13/96	11/8/96	11/11/96	11/4/96	11/6/96	10/31/96	10/31/96	10/30/96	10/29/96	10/28/96	10/25/96	10/25/96	Date Frozen
780-780	S97-359	S97-359	S97-180	S97-76	S96-23952	S96-23498	S96-22785	S96-22755	S96-22622	S96-22120	S96-21954	S96-21790	S96-21790	S96-21790	S96-21790	S96-21790	S96-21494	* S96-21002	* S96-20663	* S96-20663	S96-20282	S96-20209	* S96-20090	* S96-20090	S96-20019	S96-19905	S96-19839	S96-19738	* S96-19724	Accession Type & No.
Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type
																														Total Cases
-							_	-		_	_			_		_				_		_		_			_	_		Cases w/pairs
_)	8	2					_			2	ω		4		4						_		~			_	2		OCT Normal
_	•	N	8				_				N	ω	_	ω		ω						_		_			_	2	_	OCT
																														Slide Normal
	15	ì		15	15				15						15			15	15		15		15		15	6				Slide Tumor
						_				-										->										Snap Normal
										_										_										Snap Tumor
														_			_													Paraffin Normal
														_			_													Paraffin Tumor
																														Cytology
																														DNA Normal
			A	nnı	ıal	rep	ort,	, Jo	sé (Cos	ta l	M.I	Э.		Pag	ge 7	15					Αp	pei	ndix	x 5					Tumor

* Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available

By Tissue Type

Date	Accession		Total	Cases	000	OCT	Slide	Slide	Snap	Snap	Paraffin	Paraffin		DNA	DNA
Frozen	Type & No.	Proof	Cases	w/pairs	Normal	lumor	Normal	lumor	Normal	umor	Normal	lumor	Cytology	Normal	umor
1/10/07	507 502	Broost		-	1	1		'n							
	007-004							ō	>	•					
11000	097-094	בוקמטו							. (۔ د					
	007 007							'n		1					š
17 10/2/	001-010	בוקמפנ						5							x :
1/17/97	S97-1156	Breast				ω									ıdi
1/28/97	S97-1834	Breast			_	_						_			per
1/27/97	S97-1834	Breast						15							Ap
1/28/97	S97-1865	Breast		_	_	_									
1/28/97	S97-1865	Breast						15							
2/11/97	S97-2402	Breast						15							
2/6/97	S97-2644	Breast		_							_	_			
2/7/97	S97-2695	Breast		_	_	_									6
2/12/97	S97-3027	Breast			4	10				ω	2	2			e 7
2/18/97	S97-3455	Breast		_	N	2									Pag
2/18/97	S97-3455	Breast						15							1
2/19/97	S97-3509	Breast		_	ω	ω					N	N) .
2/19/97	S97-3524	Breast		_	_	_									M.D
2/19/97	S97-3524	Breast						15							ta N
2/24/97	S97-3840	Breast		_			_	_							Cos
2/26/97	S97-3987	Breast		_	>	_									sé C
2/27/97	S97-4099	Breast			2	2									Jos
2/27/97	S97-4099	Breast						15							ort,
3/4/97	S97-4438	Breast		_	<u> </u>	_									ере
3/4/97	S97-4438	Breast						15							al 1
3/13/97	S97-5192	Breast						15							nnu
3/14/97	S97-5224	Breast						15							Aı
2/27/97	S97-5237	Breast		_	_	_									
2/27/97	S97-5237	Breast						15							
3/18/97	S97-5432	Breast				-									
* Tissue samples are available for this patient from multiple cases and/or parts	amples are ave	silable for this nation	- t fram m	-	11		***************************************								

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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Date Frozen	Accession Type & No.	Tissue type	Total Cases	Cases w/pairs	OCT Normal	OCT	Slide Normal	Slide Tumor	Snap Normal	Snap Tumor	Paraffin Normal	Paraffin Tumor	Cytology	Normal	Tumor
3/20/97	S97-5612	Breast		_	_										
3/14/97	S97-5828	Breast						15							
3/24/97	S97-5862	Breast		_	_	_									
3/31/97	S97-6237	Breast		_	_	_									
3/31/97	S97-6297	Breast		_	2	N									_
4/1/97	S97-6318	Breast						15							ndix
4/4/97	S97-6623	Breast		-	2	ω									
4/7/97	S97-6735	Breast		_	_	_									
4/7/97	S97-6735	Breast						15							
4/7/97	S97-6786	Breast		_	_	_									
4/15/97	S97-6884	Breast		_							_	_			
4/7/97	S97-6894	Breast						15							
4/23/97	S97-6971	Breast		_	ω	G			_						_
4/23/97	S97-6971	Breast						15							
5/1/97	S97-7041	Breast		_	_	_									Pag
4/22/97	S97-7049	Breast			N	Ŋ									
5/13/97	S97-7066	Breast		_	_										
5/30/97	S97-7072	Breast		_	_	_									
5/30/97	S97-7072	Breast						15							
5/13/97	S97-7151	Breast						15							
5/28/97	S97-7152	Breast						15							
5/13/97	S97-7156	Breast						15							
4/11/97	S97-7157	Breast				2									
5/30/97	S97-7199	Breast						15							
5/16/97	S97-7247	Breast						15							
5/9/97	S97-7250	Breast						15							nnu
6/3/97	S97-7296	Breast		-	_	-1									
6/3/97	S97-7296	Breast						15							
6/13/97	S97-7322	Breast		_	_	_									
6/4/07	207 7227				•										

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										_	_	_		Breast	S97-15466	8/1/97
										_	_	_		חוממטו	097-10240	1100101
										_	_	٠.		Breact	507_15245	7/20/07
										_	_	_		Breast	S97-14835	7/24/97
A											_	_		Breast	S97-14748	7/23/97
nnu				2	2							_		Breast	S97-14696	7/22/97
ıal										-1				Breast	S97-14308	7/17/97
rep										_	_	_		Breast	S97-14308	7/17/97
ort,								15						Breast	S97-14149	7/15/97
Jo								15						Breast	S97-14061	7/15/97
sé (15						Breast	S97-14012	7/14/97
Cos								23						Breast	S97-13980	7/14/97
ta I								23						Breast	S97-13835	7/10/97
M.I								15						Breast	S97-13661	7/9/97
Э.										N	ဒ	_		Breast	S97-7793	7/14/97
,						_	_			4	4	_		Breast	S97-7788	7/10/97
Pag										ω	ω	_		Breast	S97-7787	7/9/97
ge 7								15						Breast	S97-7733	7/2/97
8								15						Breast	S97-7731	6/27/97
								15						Breast	S97-7492	6/30/97
										_	>			Breast	S97-7492	6/30/97
						_	_					_		Breast	S97-7441	6/10/97
								15						Breast	S97-7378	6/27/97
Аp				_	-							_		Breast	S97-7378	6/27/97
per								15						Breast	S97-7377	6/17/97
ndix								15						Breast	S97-7343	6/17/97
5										_	_	_		Breast	S97-7343	6/17/97
										N	2	_		Breast	S97-7342	6/10/97
								15						Breast	S97-7340	6/17/97
										-	_	_		Breast	S97-7340	6/17/97
								15						Breast	S97-7337	6/4/97
Tor	Tumor	Normal	Cytology	Paraffin Tumor	Paraffin P Normal T	Snap F	Snap Normal	Slide	Slide Normal	OCT	Normal	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen
											+ 				:	

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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									rts.	and/or par	ple cases	nt from multi	Tissue samples are available for this patient from multiple cases and/or parts	amples are ava	* Tissue s
									2	2	_		Breast	S97-22269	11/3/97
									2	2	_		Breast	S97-21876	10/28/97
							15						Breast	S97-21418	10/22/97
Aı									>	-	_		Breast	S97-21296	12/23/97
ınu							15						Breast	S97-21285	10/21/97
al 1							15						Breast	S97-20120	10/6/97
ерс							15						Breast	S97-19666	9/30/97
ort,					2								Breast	S97-19494	9/26/97
Jos							15						Breast	S97-19412	9/26/97
sé C					4	2					_		Breast	S97-19398	9/25/97
Cos							15						Breast	S97-19222	9/24/97
ta N							15						Breast	S97-19141	9/23/97
И.Г							15						Breast	S97-19109	9/23/97
) .							15						Breast	S97-18774	9/18/97
]			_		4								Breast	S97-18774	9/18/97
Pag									-	_	>		Breast	S97-18598	9/16/97
e 7									_	_	-		Breast	S97-18053	9/9/97
9							15						Breast	S97-17313	8/28/97
									_	>	_		Breast	S97-17313	8/28/97
									N	2	_		Breast	S97-17134	8/26/97
							15						Breast	S97-17041	8/25/97
							15						Breast	S97-17031	8/25/97
Αp									2	2	_		Breast	S97-17031	8/25/97
pen									_	_	_		Breast	S97-16976	8/22/97
dix										_			Breast	S97-16938	8/22/97
5							15						Breast	S97-16744	8/20/97
									2	2	-		Breast	S97-16678	8/19/97
					_	_			>	_	_		Breast	S97-16601	8/18/97
			_								_		Breast	S97-16373	8/14/97
			2	2					N	8	_		Breast	S97-16199	8/12/97
DNA	Normal	Cytology Normal	Paraffin Tumor	Paraffin Normal	Snap Tumor	Snap Normal	Slide Tumor	Slide Normal	OCT	OCT Normal	Cases w/pairs	Total Cases	Tissue type	Accession Type & No.	Date Frozen

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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				,)	,	21	2)	,	7	7		2	
Frozen	Type & No.	Tissue type	Cases	w/pairs	Normal	Tumor	Normal	Tumor	Normal	Tumor	Normal	Tumor	Cytology Normal	Normal	Tumor
11/5/97	S97-22518	Breast		_							_	_			
11/13/97	S97-23151	Breast		_	N					2					
11/14/97	S97-23233	Breast		_	ω	Cī									
11/19/97	S97-23553	Breast		_							_	_			
11/21/97	S97-23569	Breast		_							ω	ω			x 5
11/20/97	S97-23692	Breast		_	_										ndix
11/20/97	S97-23692	Breast						15							per
11/25/97	S97-24058	Breast		_	_	_									Аp
11/25/97	S97-24087	Breast		_	2	N									
12/2/97	S97-24541	Breast		_	ω	ω									
12/3/97	S97-24608	Breast		_	თ	Οī		15							
12/3/97	S97-24608	Breast		_	_	_									
12/3/97	S97-24608	Breast						15							30
12/5/97	S97-24877	Breast				_									ge 8
12/8/97	S97-24975	Breast				7									Pag
12/9/97	S97-24977	Breast						15							
12/9/97	S97-24991	Breast						15							Э.
12/9/97	S97-25057	Breast								N					M.I
12/11/97	S97-25291	Breast		_	Q.					_					ta l
12/11/97	S97-25291	Breast						15							Cos
1/14/98	S97-25291	Breast						15							sé (
12/11/97	S97-25311	Breast		_	_	_									, Jo
12/11/97	S97-25311	Breast						15							ort,
12/11/97	S97-25311	Breast						15							rep
12/12/97	S97-25439	Breast		>	5	51									ıal
12/15/97	S97-25573	Breast		_	_	_									nnı
12/15/97	S97-25573	Breast						15							A
12/17/97	S97-25790	Breast		_	_	_									
12/17/97	S97-25790	Breast						15							
12/17/97	S97-25790	Breast						15							
* Tipping	amples are ave	amples are available for this nationt from multiple	from multi	20200	and/or parts	10									

^{*} Tissue samples are available for this patient from multiple cases and/or parts.

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Tissue Available
By Tissue Type

As of: July 17, 1998

* Tissue samples are available for this patient from multiple cases and/or parts.

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\$ Tipe 10	5/15/08	5/13/98	5/8/98	5/7/98	5/1/98	4/30/98	4/28/98	4/27/98	4/21/98	4/22/98	4/20/98	4/14/98	4/9/98	4/9/98	4/7/98	4/7/98	4/7/98	4/6/98	4/6/98	3/31/98	3/31/98	3/27/98	3/27/98	3/23/98	3/16/98	3/11/98	3/11/98	3/11/98	3/9/98	3/2/98	Date Frozen
390-10434	508-10454	S98-10105	S98-9892	S98-9772	S98-9396	S98-9251	S98-8995	S98-8914	S98-8467	S98-8386	S98-8386	S98-7921	S98-7743	S98-7743	S98-7472	S98-7465	S98-7455	S98-7325	S98-7061	S98-6943	S98-6884	S98-6623	S98-6623	S98-6260	S98-5753	S98-5370	S98-5370	S98-5370	S98-5141	S98-4666	Accession Type & No.
* Time and the second of the s	Breact	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Breast	Tissue type
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^{* *} Tissue samples are available for this patient from multiple cases and/or parts.

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Accession Tissue type Cases w/pairs Normal Tumor Normal Tumor Normal Tumor Cytology Normal Tumor S98-10485 Breast 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			6/19/98	6/18/98	6/16/98	6/12/98	5/29/98	5/26/98	5/26/98	5/21/98	5/15/98	5/15/98	Date Frozen	•
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